STR-DG510

SERVICE MANUAL

Ver. 1.0 2007. 01

US Model
Canadian Model
AEP Model
UK Model

Photo: Black type

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SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:
(Models of area code US only)
With 8 ohm loads, both channels driven, from 20 – 20,000 Hz; rated 90 watts per channel minimum RMS power, with no more than 0.09 % total harmonic distortion from 250 milliwatts to rated output.

Amplifier section

Models of area code US, CND [1)]
Minimum RMS Output Power (8 ohms, 20 Hz – 20 kHz, THD 0.09%)
90 W + 90 W
Stereo Mode Output Power (8 ohms, 1 kHz, THD 1%)
100 W + 100 W
Surround Mode Output Power [2)] (8 ohms 1 kHz, THD 10%)
130 W/ch

Models of area code AEP, UK [1)]
Minimum RMS Output Power (8 ohms, 20 Hz – 20 kHz, THD 0.09%)
85 W + 85 W
Stereo Mode Output Power (8 ohms, 1 kHz, THD 1%)
100 W + 100 W
Surround Mode Output Power [2)] (8 ohms, 1 kHz, THD 10%)
130 W/ch

1) Measured under the following conditions:

Area code	Power requirements
US, CND	120 V AC, 60 Hz
AEP, UK	230 V AC, 50 Hz

2) Reference power output for front, center and surround speakers. Depending on the sound field settings and the source, there may be no sound output.

– Continued on next page –

MULTI CHANNEL AV RECEIVER

9-887-536-01
2007A04-1
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Sony Corporation
Home Audio Division
Published by Sony Techno Create Corporation

SONY

Frequency response
- Analog: 10 Hz – 70 kHz +0.5/–2 dB (with sound field and tone bypassed)

Inputs
- Analog: Sensitivity: 500 mV/ 50 kohms S/N [3] : 96 dB (A, 500 mV [4])
- Digital (Coaxial): Impedance: 75 ohms S/N: 100 dB (A, 20 kHz LPF)
- Digital (Optical): S/N: 100 dB (A, 20 kHz LPF)

Output (Analog)
- AUDIO OUT: Voltage: 500 mV/10 kohms
- SUB WOOFER: Voltage: 2 V/1 kohm

Tone
- Gain levels: ±6 dB, 1 dB step

3) INPUT SHORT (with sound field and tone bypassed).

4) Weighted network, input level.

FM tuner section

Tuning range: 87.5 – 108.0 MHz
Antenna: FM wire antenna
Antenna terminals: 75 ohms, unbalanced
Intermediate frequency: 10.7 MHz

AM tuner section

Tuning range
- Models of area code US, CND
  - With 10-kHz tuning scale: 530 – 1,710 kHz [5]
  - With 9-kHz tuning scale: 531 – 1,710 kHz [5]
- Models of area code AEP, UK
  - With 9-kHz tuning scale: 531 – 1,602 kHz

Antenna: Loop antenna
Intermediate frequency: 450 kHz

5) You can change the AM tuning scale to 9 kHz or 10 kHz. After tuning in any AM station, turn off the receiver. While holding down TUNING MODE, press I/⏻. All preset stations will be erased when you change the tuning scale. To reset the scale to 10 kHz (or 9 kHz), repeat the procedure.

Video section

Inputs/Outputs
- Video: 1 Vp-p/75 ohms
- COMPONENT VIDEO: Y: 1 Vp-p/75 ohms PB/CB: 0.7 Vp-p/ 75 ohms PR/CR: 0.7 Vp-p/ 75 ohms 80 MHz HD Pass Through

General

Power requirements

Area code	Power requirements
US, CND	120 V AC, 60 Hz
AEP, UK	230 V AC, 50/60 Hz

Power consumption

Area code	Power consumption
US, AEP, UK	220 W
CND	300 VA

Power consumption (during standby mode): 0.3 W
Dimensions (w/h/d) (Approx.): 430.5 × 157.5 × 309 mm (16 7/8 × 6 2/8 × 12 1/8 inches) including projecting parts and controls
Mass (Approx.): 7.7 kg (16 lb 16 oz)

Supplied accessories
- FM wire antenna (aerial) (1)
- AM loop antenna (aerial) (1)
- Remote commander RM-AAU013 (1)
- R6 (size-AA) batteries (2)
- Optimizer microphone ECM-AC2 (1)

Design and specifications are subject to change without notice.

- Abbreviation
  CND : Canadian model

SAFETY CHECK-OUT (US MODEL)

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage.
Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers.). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

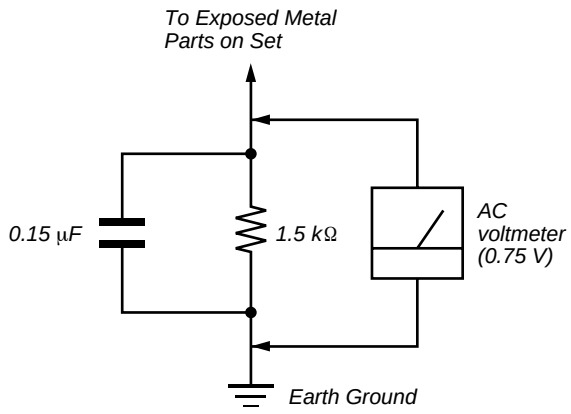
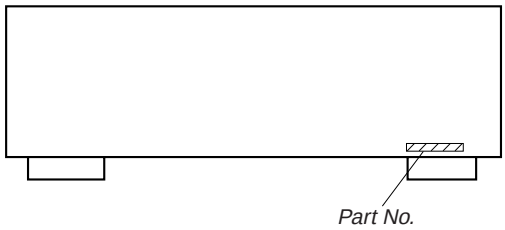


Fig. A. Using an AC voltmeter to check AC leakage.

MODEL IDENTIFICATION

— BACK PANEL —



MODEL	PART No.
US	2-896-346-0☐
CND	2-896-346-1☐
AEP, UK	2-896-346-2☐

• Abbreviation
CND: Canadian model

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

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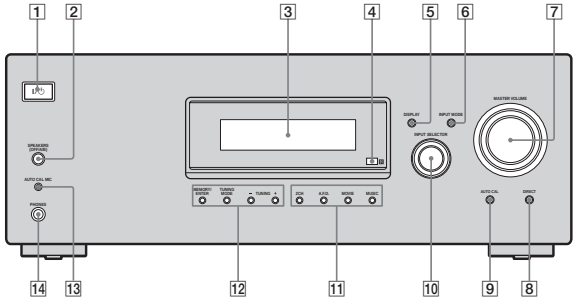
SECTION 1
GENERAL

This section is extracted from instruction manual.

Description and location of parts

Front panel

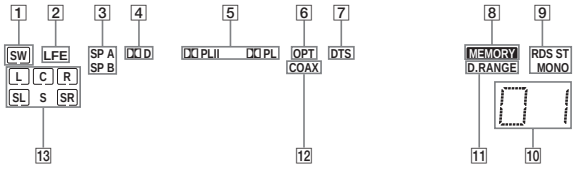


Name	Function
1 **I/⏻ (on/standby)**	Press to turn the receiver on or off (page 26, 34, 35, 52, 69).
2 **SPEAKERS (OFF/A/B)**	Press to select the front speaker system (page 27).
3 **Display**	The current status of the selected component or a list of selectable items appears here (page 8).
4 **Remote sensor**	Receives signals from remote commander.
5 **DISPLAY**	Press to select information displayed on the display (page 57, 59).
6 **INPUT MODE**	Press to select the input mode when the same components are connected to both digital and analog jacks (page 58).

Name	Function
7 **MASTER VOLUME**	Turn to adjust the volume level of all speakers at the same time (page 32, 33, 34, 35).
8 **DIRECT**	Press to listen to high quality analog sound (page 51).
9 **AUTO CAL**	Press to activate the Auto Calibration function (page 29).
10 **INPUT SELECTOR**	Turn to select the input source to play back (page 32, 34, 35, 51, 53, 55, 56, 58, 59, 60).
11 **2CH** **A.F.D.** **MOVIE** **MUSIC**	Press to select a sound field (page 46).

Name	Function
12 **MEMORY/ ENTER** **TUNING MODE** **TUNING +/–**	Press to operate the tuner (FM/AM) (page 52).
13 **AUTO CAL MIC jack**	Connects to the supplied optimizer microphone for the Auto Calibration function (page 28).
14 **PHONES jack**	Connects to headphones (page 64).

About the indicators on the display

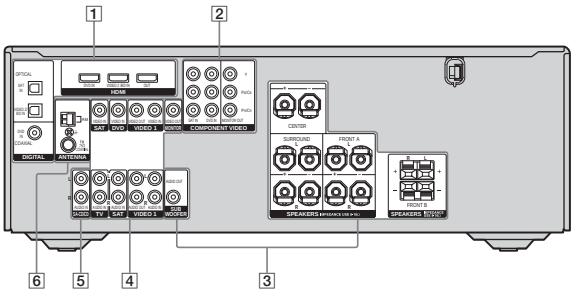


Name	Function
1 **SW**	Lights up when sub woofer selection is set to "YES" (page 42) and the audio signal is output from the SUB WOOFER jack.
2 **LFE**	Lights up when the disc being played back contains an LFE (Low Frequency Effect) channel and the LFE channel signal is actually being reproduced.
3 **SP A/SP B**	Lights up according to the speaker system used. However, these indicators do not light up if the speaker output is turned off or if headphones are connected.
4 **D D**	Lights up when the receiver is decoding Dolby Digital signals. **Note** When playing a Dolby Digital format disc, be sure that you have made digital connections and that INPUT MODE is not set to "ANALOG" (page 58).

Name	Function
5 **PL/ PLII**	"PL" lights up when the receiver applies Pro Logic processing to 2 channel signals in order to output the center and surround channel signals. "PLII" lights up when the Pro Logic II Movie/Music decoder is activated. However, these indicators do not light up if both the center and surround speakers are set to "NO" (page 38) and you select a sound field using the A.F.D. button.
6 **OPT**	Lights up when VIDEO 2 input is selected. However, "UNLOCK" appears on the display if no digital signal is input through the OPTICAL jack. "OPT" also lights up when SAT input is selected if – INPUT MODE is set to "AUTO IN" and the source signal is a digital signal being input through the OPTICAL jack. – INPUT MODE is set to "OPT IN" (page 58).
7 **DTS**	Lights up when the receiver is decoding DTS signals. **Note** When playing a DTS format disc, be sure that you have made digital connections and that INPUT MODE is not set to "ANALOG" (page 58).

Name	Function
8 **MEMORY**	Lights up when a memory function, such as Preset Memory (page 55), etc., is activated.
9 **Tuner indicators**	Lights up when using the receiver to tune in radio stations (page 52), etc. **Note** "RDS" appears for models of area code CEL, CEK only.
10 **Preset station indicators**	Lights up when using the receiver to tune in radio stations you have preset. For details on presetting radio stations, see page 54.
11 **D.RANGE**	Lights up when dynamic range compression is activated (page 37).
12 **COAX**	Lights up when DVD input is selected. However, "UNLOCK" appears on the display if no digital signal is input through the COAXIAL jack.
13 **Playback channel indicators** **L** **R** **C** **SL** **SR** **S**	The letters (L, C, R, etc.) indicate the channels being played back. The boxes around the letters vary to show how the receiver downmixes the source sound (based on the speaker settings). Front Left Front Right Center (monaural) Surround Left Surround Right Surround (monaural or the surround components obtained by Pro Logic processing) **Example:** Recording format (Front/ Surround): 3/2.1 Output channel: When surround speakers are set to "NO" (page 38) Sound Field: A.F.D. AUTO SW L C R SL SR

Rear panel



1 DIGITAL INPUT/OUTPUT section

	OPTICAL IN jacks	Connects to a DVD player, etc. The COAXIAL jack provides a better quality of loud sound (page 18, 21, 23).
	COAXIAL IN jack	
	HDMI IN/ OUT jacks*	Connects to a DVD player, etc. The image and the sound are output to a TV or a projector (page 18).

2 COMPONENT VIDEO INPUT/ OUTPUT section

Green (Y) / Blue (PB/CB) / Red (PR/CR)	COMPONENT VIDEO INPUT/ OUTPUT jacks*	Connects to a DVD player, TV, or a satellite tuner. You can enjoy high quality image (page 20, 21, 23).

3 SPEAKERS section

	Connects to speakers (page 15).
	Connects to a sub woofer (page 15).

4 VIDEO/AUDIO INPUT/OUTPUT section

White (L) / Red (R)	AUDIO IN/ OUT jacks	Connects to a VCR, a DVD player, etc. (page 20–24).
Yellow	VIDEO IN/ OUT jacks*	

5 AUDIO INPUT section

White (L) / Red (R)	AUDIO IN jacks	Connects to a CD player, etc. (page 16).

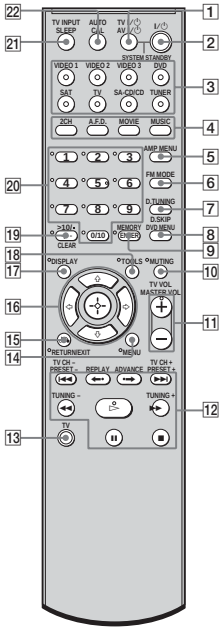
6 ANTENNA section

	FM ANTENNA jack	Connects to the FM wire antenna (aerial) supplied with this receiver (page 25).
	AM ANTENNA terminals	Connects to the AM loop antenna (aerial) supplied with this receiver (page 25).

* You can watch the selected input image when you connect the MONITOR OUT or HDMI OUT jack to a TV or projector (page 18, 20).

Remote commander

You can use the supplied remote RM-AAU013 to operate the receiver and to control the Sony audio/video components that the remote is assigned to operate (page 61).



continued

Name	Function
1 **TV I/⏻ (on/standby)**	Press TV I/⏻ and TV (13) at the same time to turn the TV on or off.
AV I/⏻ (on/standby)	Press to turn on or off the Sony audio/video components that the remote is assigned to operate (page 61). If you press I/⏻ (2) at the same time, it will turn off the receiver and other components (SYSTEM STANDBY). **Note** The function of the AV I/⏻ switch changes automatically each time you press the input buttons (3).
2 **I/⏻ (on/standby)**	Press to turn the receiver on or off. To turn off all components, press I/⏻ and AV I/⏻ (1) at the same time (SYSTEM STANDBY).
3 **Input buttons**	Press one of the buttons to select the component you want to use. When you press any of the input buttons, the receiver turns on. The buttons are factory assigned to control Sony components as follows. You can change the button assignments following the steps in "Changing button assignments" on page 61.

Button	Assigned Sony component
VIDEO 1	VCR (VTR mode 3)
VIDEO 2	VCR (VTR mode 2)
VIDEO 3	Not assigned
DVD	DVD player
SAT	Digital Satellite Receiver
TV	TV
SA-CD/CD	Super Audio CD/ CD player
TUNER	Built-in tuner

Name	Function
4 **2CH**	Press to select a sound field.
A.F.D.	
MOVIE	
MUSIC	
5 **AMP MENU**	Press to display the menu of the receiver. Then, use ↑, ↓, ←, → and ⊕ (16) to perform menu operations.
6 **FM MODE**	Press to select the FM monaural or stereo reception.
7 **D.TUNING**	Press to enter direct tuning mode.
D.SKIP	Press to skip a disc when using a multi-disc changer.
8 **DVD MENU**	Press to display the menu of the DVD player on the TV screen. Then, use ↑, ↓, ←, →, and ⊕ (16) to perform menu operations.
9 **ENTER**	Press to enter the value after selecting a channel, disc or track using the numeric buttons of the TV, VCR or satellite tuner.
MEMORY	Press to store a station.
10 **MUTING**	Press to activate the muting function. Press MUTING and TV (13) at the same time to activate the TV's muting function.
11 **TV VOL +a)/–**	Press TV VOL +/– and TV (13) at the same time to adjust the TV volume level.
MASTER VOL +a)/–	Press to adjust the volume level of all speakers at the same time.
12 **I◄◄ /►►I**	Press to skip a track of the CD player, DVD player or blu-ray disc player.
REPLAY ←· / ADVANCE ·→	Press to replay the previous scene or fast forward the current scene of the VCR, DVD player or blu-ray disc player.

Name	Function
◄◄/►►	Press to – search tracks in the forward/ reverse direction of the DVD player. – start fast forward/rewind of the VCR, CD player or blu-ray disc player.
▻a)	Press to start playback of the VCR, CD player, DVD player, or blu-ray disc player.
II	Press to pause playback or recording of the VCR, CD player, DVD player or blu-ray disc player. (Also starts recording with components in recording standby.)
■	Press to stop playback of the VCR, CD player, DVD player or blu-ray disc player.
TV CH +/–	Press TV CH +/– and TV (13) at the same time to select preset TV channels.
PRESET +/–	Press to select – preset stations. – preset channels of the VCR or satellite tuner.
TUNING +/–	Press to scan a station.
13 **TV**	Press TV and the button you want at the same time to activate the buttons with orange printing.
14 **MENU**	Press to display the menu of the VCR, DVD player, satellite tuner or blu-ray disc player on the TV screen. Press MENU and TV (13) at the same time to display the TV's menu. Then, use ↑, ↓, ←, → and ⊕ (16) to perform menu operations.

Name	Function
15 **RETURN/ EXIT ↶**	Press to – return to the previous menu. – exit the menu while the menu or on-screen guide of the VCR, DVD player, satellite tuner or blu-ray disc player is displayed on the TV screen. Press RETURN/EXIT and TV (13) at the same time to return to the previous menu or exit the TV's menu while the menu is displayed on the TV screen.
16 **⊕ ↑/↓/←/→**	After pressing AMP MENU (5), DVD MENU (8), or MENU (14), press ↑, ↓, ← or → to select the settings. Then, press ⊕ to enter the selection for DVD MENU or MENU. Press ⊕ also to enter the selection of the receiver, VCR, satellite tuner, CD player, DVD player or blu-ray disc player.
17 **DISPLAY**	Press to select information displayed on the TV screen of the VCR, satellite tuner, CD player, DVD player or blu-ray disc player. Press DISPLAY and TV (13) at the same time to display TV's information on the TV screen.
18 **TOOLS**	Press to display options applicable to the entire disc (e.g. disc protection), recorder (e.g. audio settings during recording), or multiple items on a list menu (e.g. erasing multiple titles). Press TOOLS and TV (13) at the same time to display options applicable to the TV.

continued

Name		Function
19	**-/--**	Press -/-- and TV (13) at the same time to select the channel entry mode, either one or two digits of the TV.
	>10/-	Press to select – track numbers over 10 of the VCR, satellite tuner or CD player. – channel numbers of the Digital CATV terminal.
	CLEAR	Press to clear a mistake when you press the incorrect numeric button.
20	**Numeric buttons (number 5[a])**	Press to – preset/tune to preset stations. – select track numbers of the CD player, DVD player or blu-ray disc player. Press 0/10 to select track number 10. – select channel numbers of the VCR or satellite tuner. Press the numeric buttons and TV (13) at the same time to select the TV channels.
21	**TV INPUT**	Press TV INPUT and TV (13) at the same time to select the input signal (TV input or video input).
	SLEEP	Press to activate the Sleep Timer function and the duration which the receiver turns off automatically.
22	**AUTO CAL**	Press to activate the Auto Calibration function.

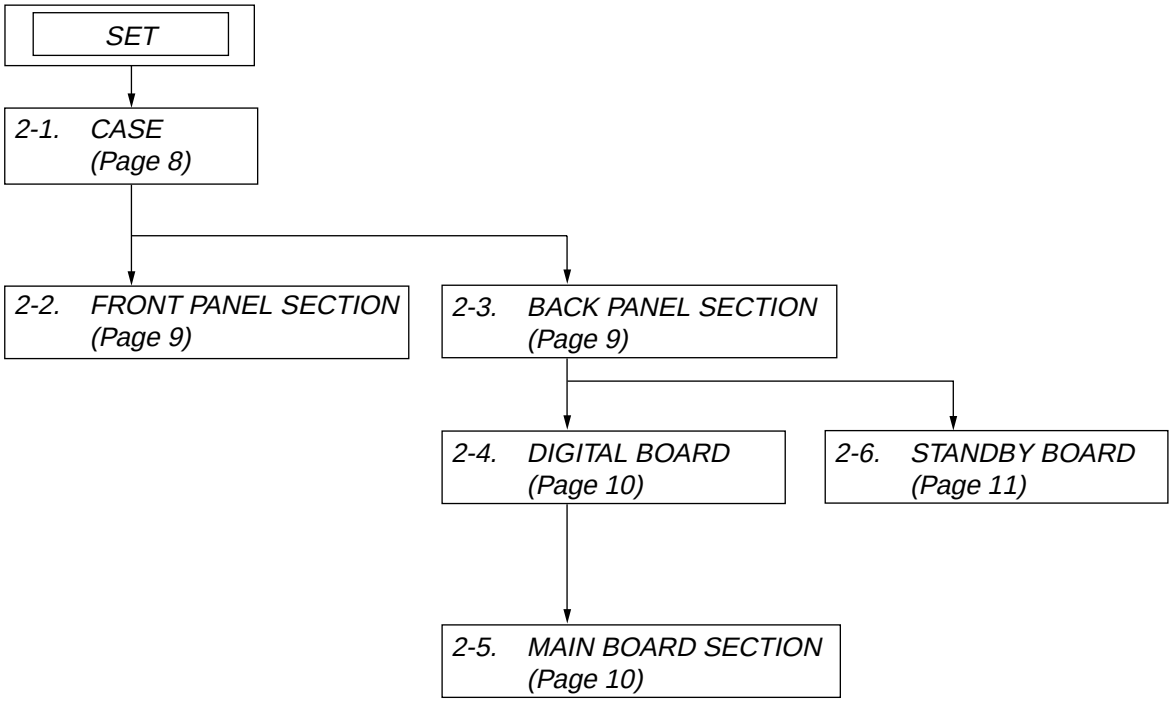
[a] The number 5, MASTER VOL +, TV VOL +, and ▷ buttons have tactile dots. Use the tactile dots as references when operating the receiver.

Notes

- Some functions explained in this section may not work depending on the model.
- The above explanation is intended to serve as an example only. Therefore, depending on the component, the above operation may not be possible or may operate differently than described.
- The VIDEO 3 button on the remote is not available for receiver operation.

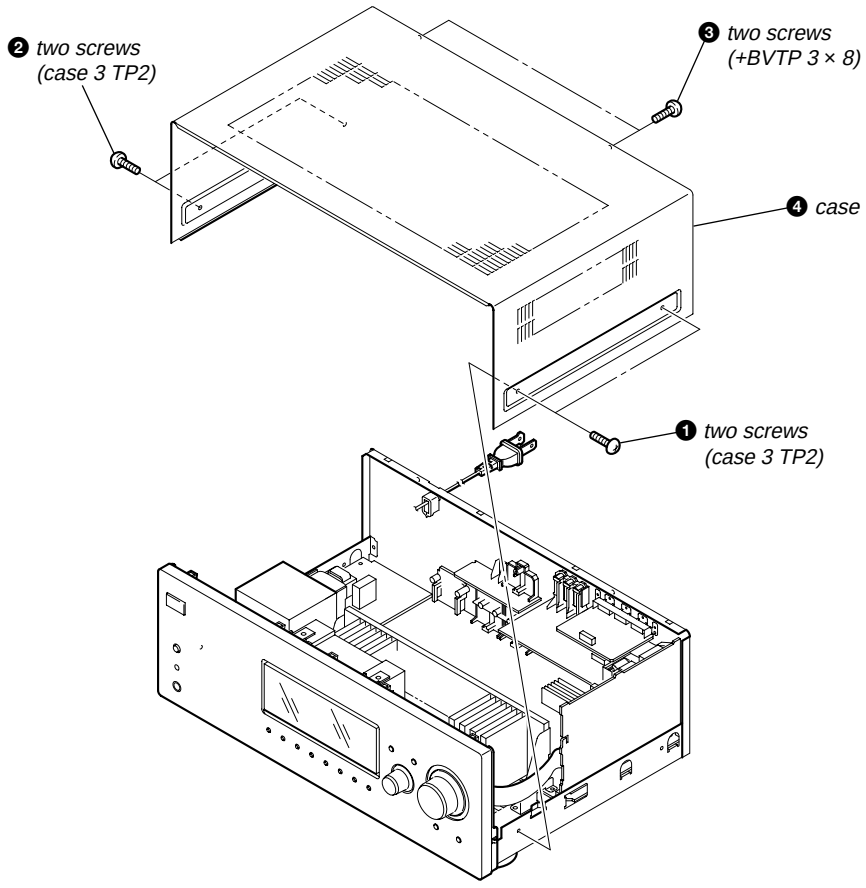
SECTION 2
DISASSEMBLY

Note : This set can be disassemble according to the following sequence.

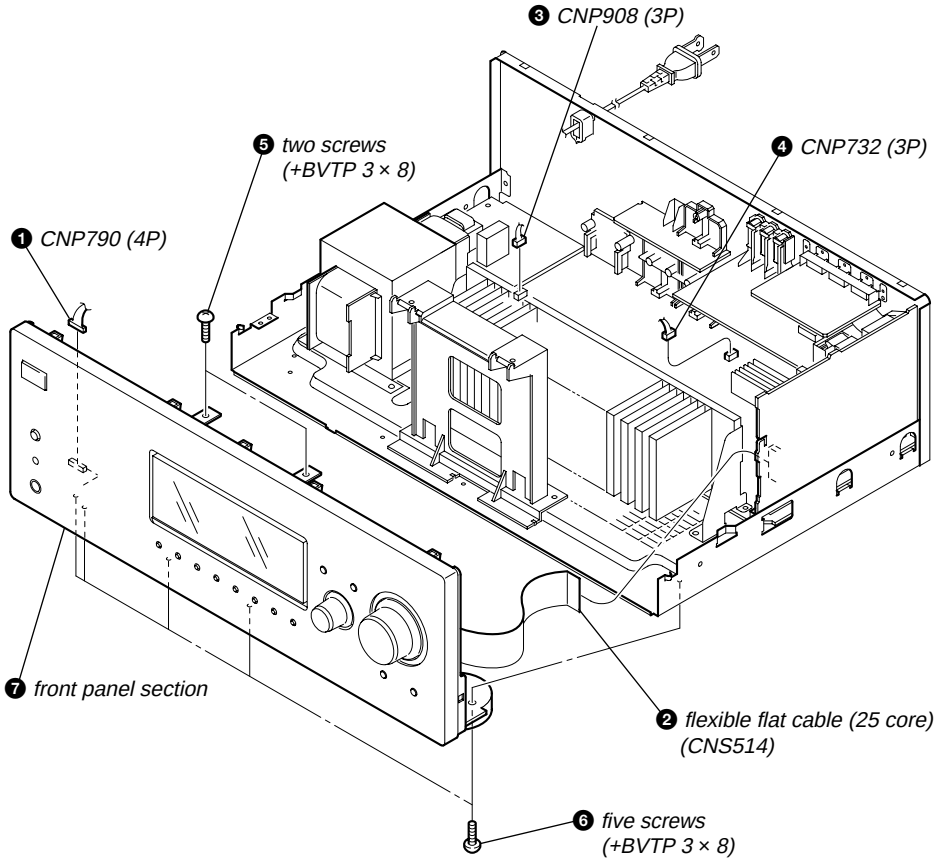


Note : Follow the disassembly procedure in the numerical order given.

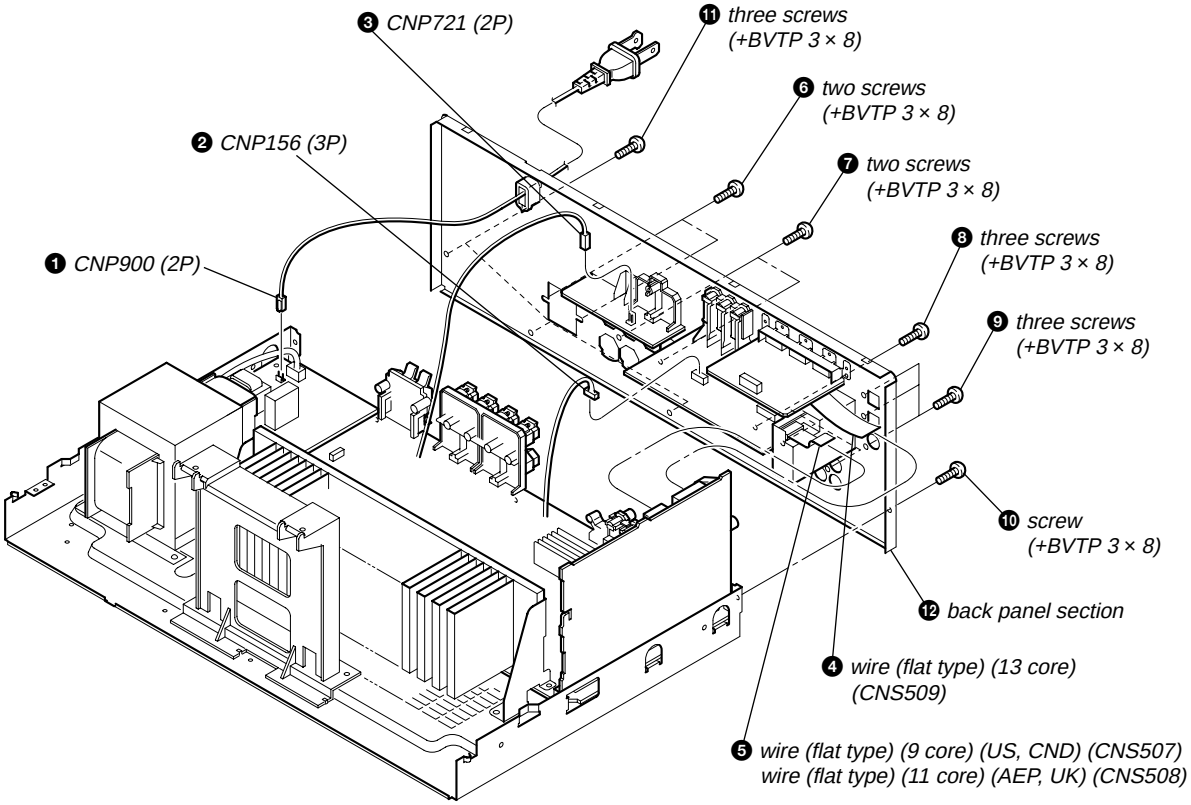
2-1. CASE



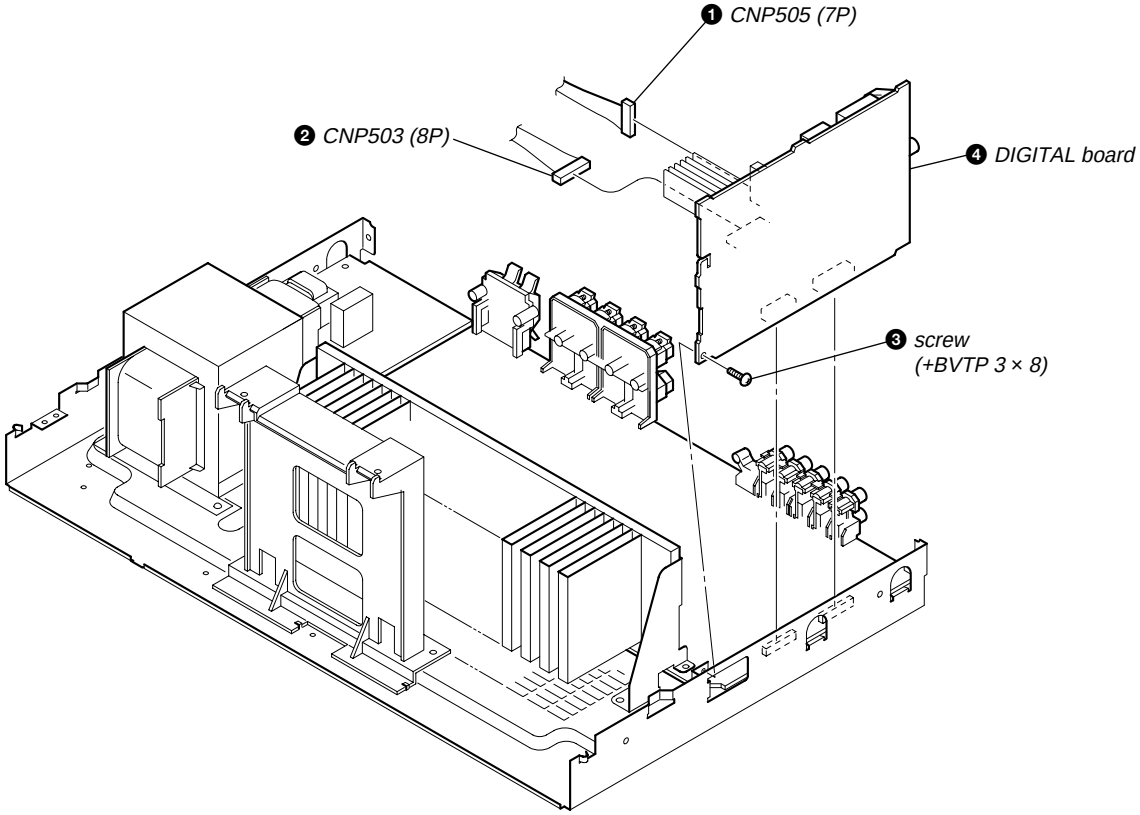
2-2. FRONT PANEL SECTION


❸ CNP908 (3P)
❺ two screws (+BVTP 3 × 8)
❹ CNP732 (3P)
❶ CNP790 (4P)
❼ front panel section
❷ flexible flat cable (25 core) (CNS514)
❻ five screws (+BVTP 3 × 8)

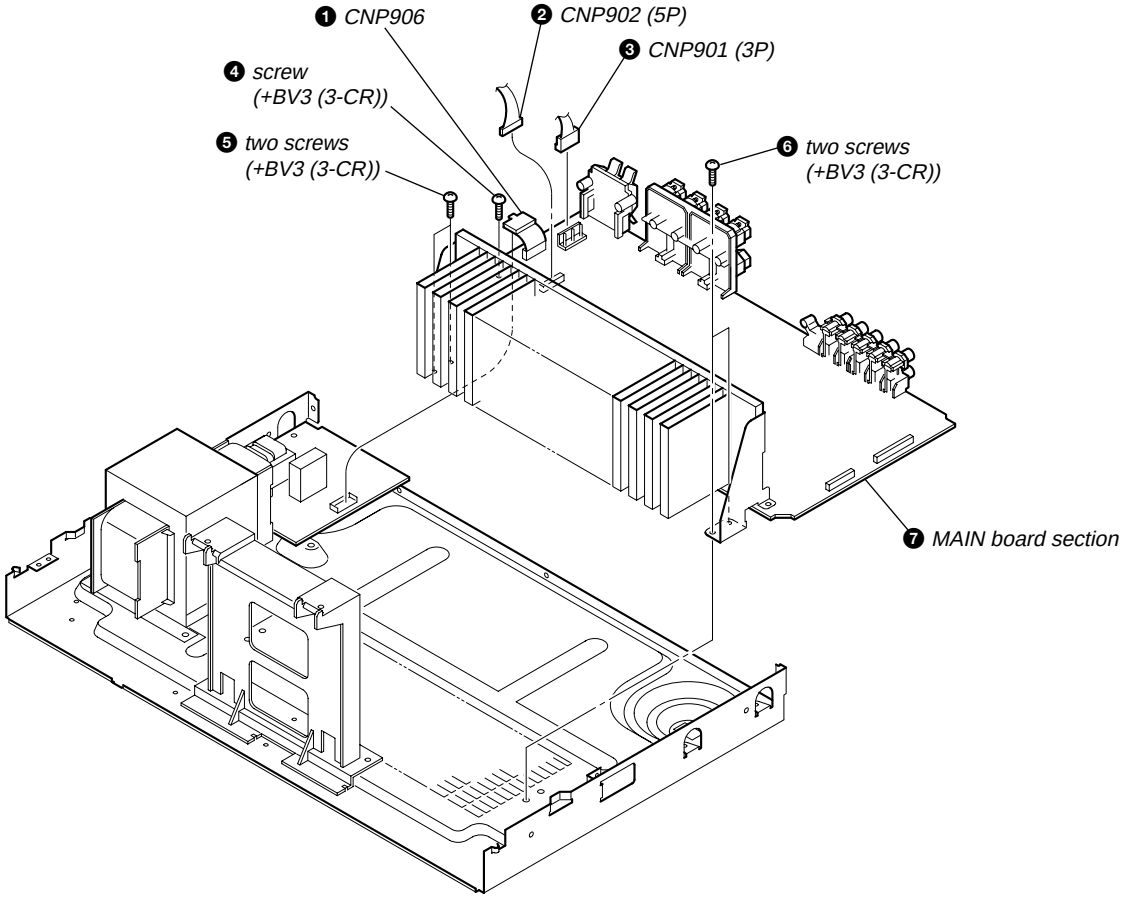
2-3. BACK PANEL SECTION


❸ CNP721 (2P)
⓫ three screws (+BVTP 3 × 8)
❻ two screws (+BVTP 3 × 8)
❷ CNP156 (3P)
❼ two screws (+BVTP 3 × 8)
❽ three screws (+BVTP 3 × 8)
❶ CNP900 (2P)
❾ three screws (+BVTP 3 × 8)
❿ screw (+BVTP 3 × 8)
⓬ back panel section
❹ wire (flat type) (13 core) (CNS509)
❺ wire (flat type) (9 core) (US, CND) (CNS507)
wire (flat type) (11 core) (AEP, UK) (CNS508)

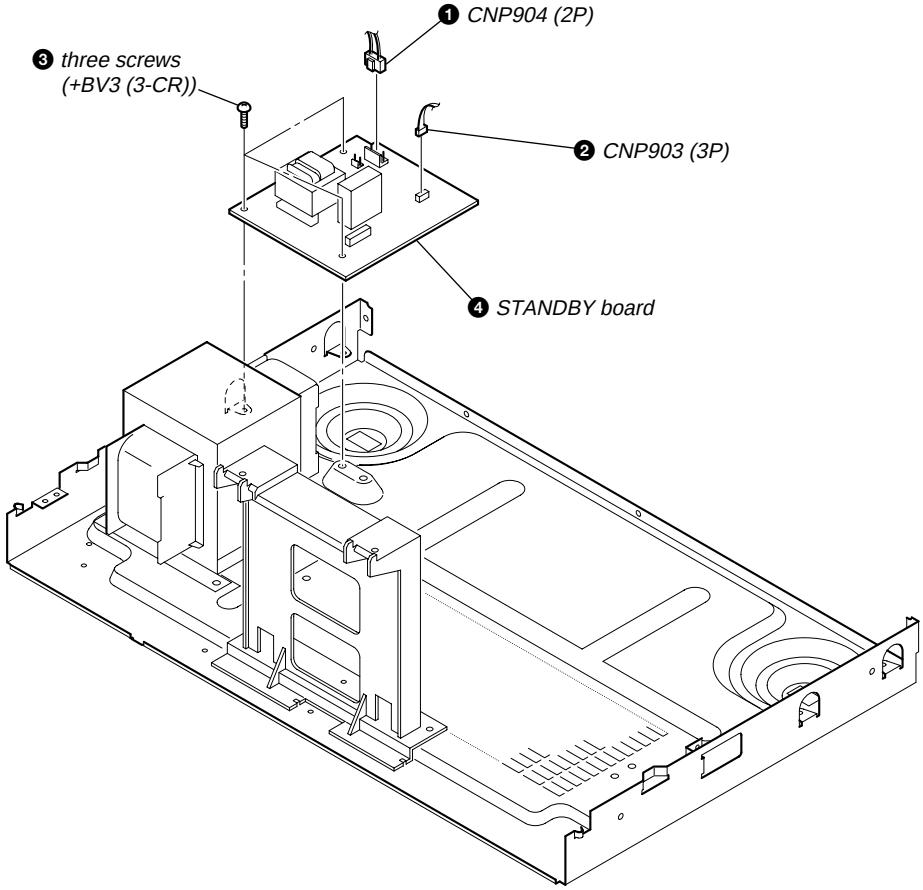
2-4. DIGITAL BOARD



2-5. MAIN BOARD SECTION



2-6. STANDBY BOARD



SECTION 3
TEST MODE

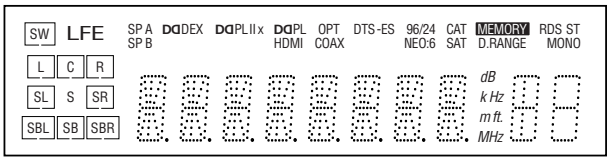
AM CHANNEL STEP 9 kHz/10 kHz SELECTION MODE (US, Canadian model only)

* Either the 9 kHz step or 10 kHz step can be selected for the AM channel step.
* Procedure:
  Turn the [INPUT SELECTOR] control to set AM and press the [I/⏻] button to turn off the main power.
  While depressing the [TUNING MODE] button, press the [I/⏻] button to turn on the main power.
  Either the message “9k STEP” or “10k STEP” appears for a moment and select the desired step.

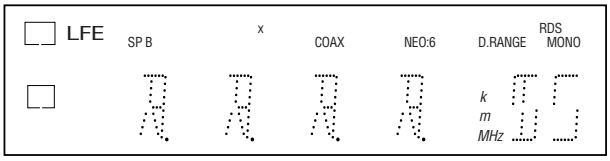
VACUUM FLUORESCENT DISPLAY TEST MODE

* All fluorescent segments are tested.
  When this test is activated, all segments light on at the same time, then each segment lights on one after another.
* Procedure:
  While depressing the [TUNING MODE] and the [DISPLAY] buttons simultaneously, press the [I/⏻] button to turn on the main power.

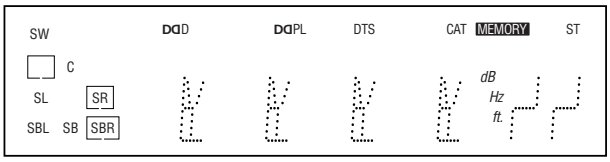
1. ALL segments light on.



2. Turn the [INPUT SELECTOR] control, confirm display.



3. Turn the [INPUT SELECTOR] control, confirm display.



4. Turn the [INPUT SELECTOR] control, all segments light off.

SOUND FIELD CLEAR MODE

* The preset sound field is cleared when this mode is activated. Use this mode before returning the product to clients upon completion of repair.
* Procedure:
  While depressing the [2CH] button, press the [I/⏻] button to turn on the main power.
  The message “S.F. CLR.” appears for a moment and initialization is performed.

SOFTWARE VERSION DISPLAY MODE

* The software version is displayed.
* Procedure:
  While depressing the [SPEAKERS (OFF/A/B)] and the [DISPLAY] buttons simultaneously, press the [I/⏻] button to turn on the main power.
  The model name, destination and the software version are displayed for a moment.

KEY CHECK MODE

* Button check
* Procedure:
  While depressing the [SPEAKERS (OFF/A/B)] and the [2CH] buttons simultaneously, press the [I/⏻] button to turn on the main power.
  Either the message “REST 13” appears.
  Every pressing of any button other than the [I/⏻] counts down the buttons. The buttons which are already counted once are not counted again. When all buttons are pressed “REST 00” appears.

SWAP ALL MODE

* The signal will be swap to all channel so that all speaker will have sound output.
* Procedure:

1. While depressing the [SPEAKERS (OFF/A/B)] and the [A.F.D.] buttons simultaneously, press the power [I/⏻] button to turn on the main power.
2. “SWP. ALL” appears. (No change while displayed.)

SHIPMENT MODE

All preset contents are reset to the default setting.

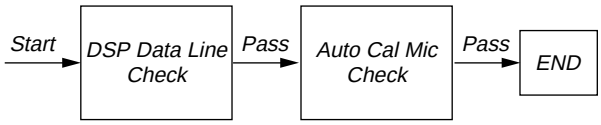
* Procedure:

1. While depressing the [SPEAKERS (OFF/A/B)] and the [MUSIC] buttons simultaneously, press the power [I/⏻] button to turn on the main power.
2. “CLEARED” appears and switch off the set.

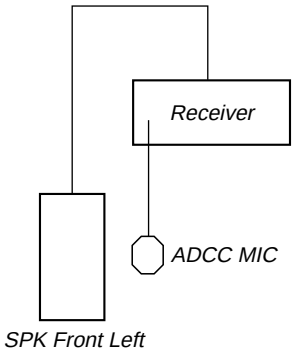
DCAC FACTORY TEST MODE

DCAC Factory Test mode have two stages:

1. DCAC DSP Data Line Checking
2. DCAC board Checking



Factory Test System Setup



1. When power off:
   Press the three buttons [MEMORY/ENTER] + [MOVIE] + [I/⏻].
   “DCAC□FTM” appears.
   Afterward, press the [TUNING MODE] to start DCAC factory test mode.

SECTION 4
FM TUNER CHECK

1. DCAC DSP Data Line Checking

After press the [TUNING MODE], DCAC Factory test mode will start, below display will show:
"DCAC□□□x" x=1, 2, 3
If there is error happen, below display will show:

"ERR□SD0x" x=1 ⟶ D1501 or R1530 problem
x=2 ⟶ D1502 problem
x=3 ⟶ D1503 problem

2. DCAC board Checking

Connect front left speaker of the receiver and AUTO CAL microphone. Turn [MASTER VOLUME] jog, there will be test tone sound output from front left speaker, and the display will change accordingly.

"AD□-□xxx" xxx=0 to 255 (depends on loudness of test tone)

FM AUTO STOP CHECK

(1) Turn on the set.
(2) Input the following signal from Signal Generator to FM antenna input directly.

* Carrier Frequency: A=87.5 MHz, B=98 MHz, C=108 MHz
Deviation : 75 kHz
Modulation : 1 kHz
ANT input : 35 dBu (EMF)

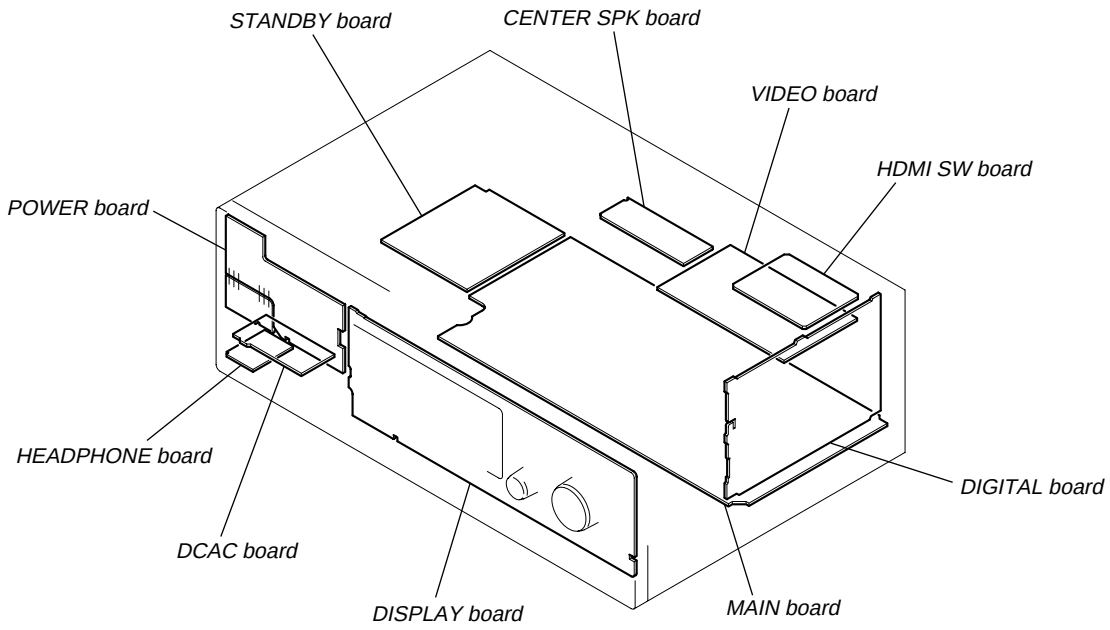
(Note)
Please use 75 ohm "coaxial cable" to connect SG and the set. You cannot use video cable for checking.
Please use SG whose output impedance is 75 ohm.

(3) Set to FM tuner function and scan the input FM signal with automatic scanning.
(4) Confirm that input Frequency of A, B and C are detected and automatic scanning stops.

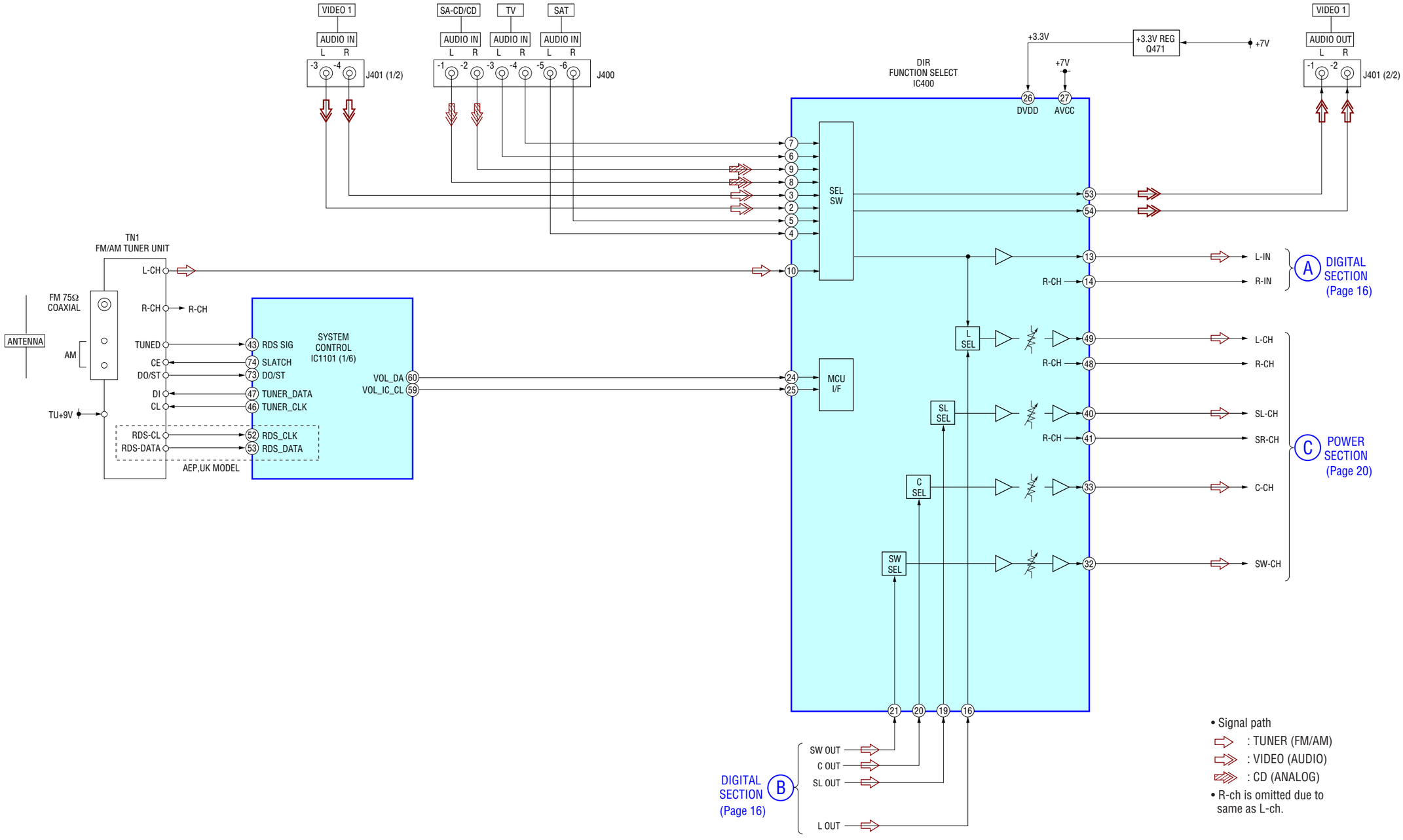
The stop of automatic scanning means "The station signal is received in good condition."

SECTION 5
DIAGRAMS

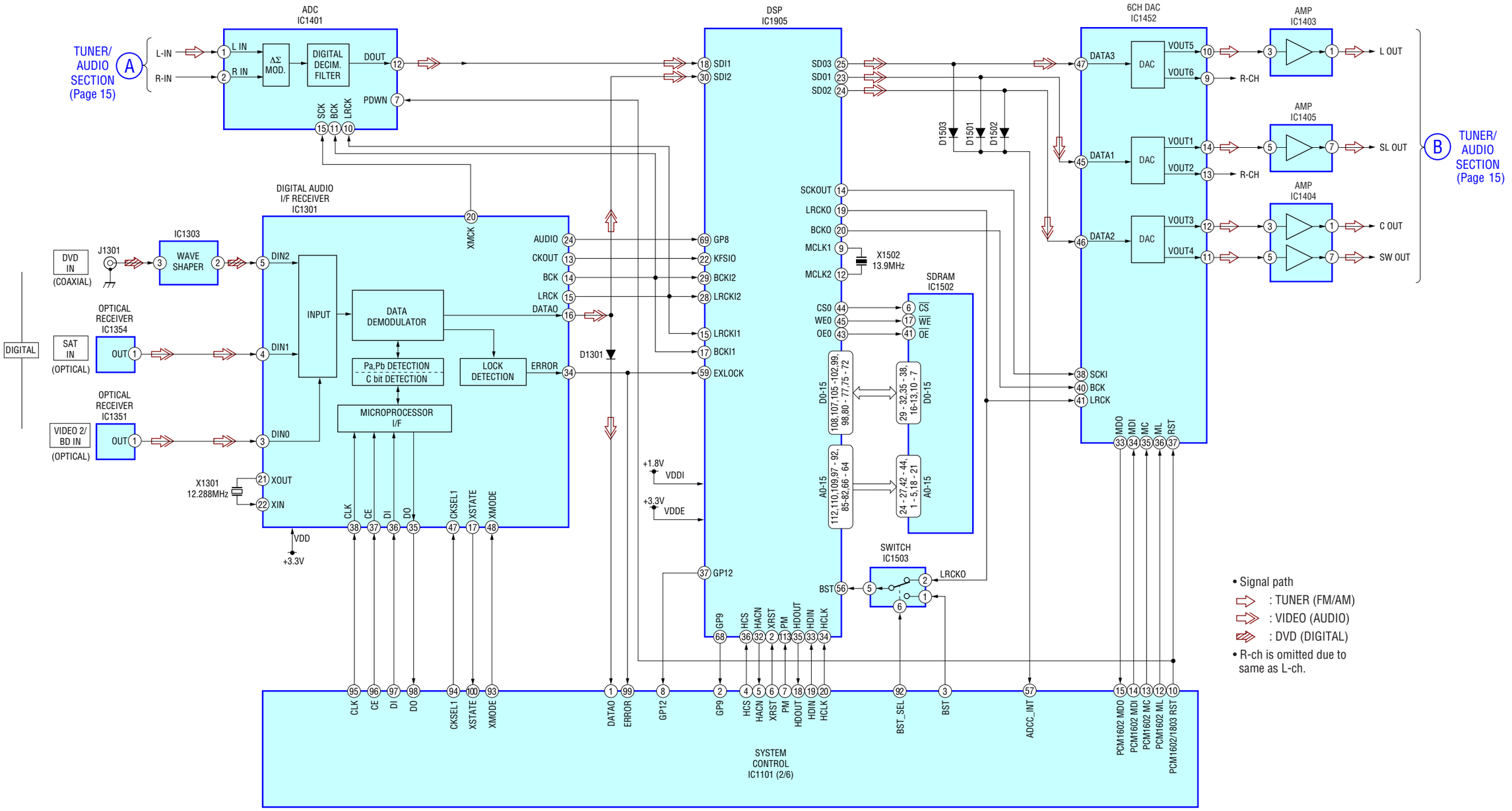
• Circuit Boards Location



5-1. BLOCK DIAGRAM — TUNER/AUDIO SECTION —

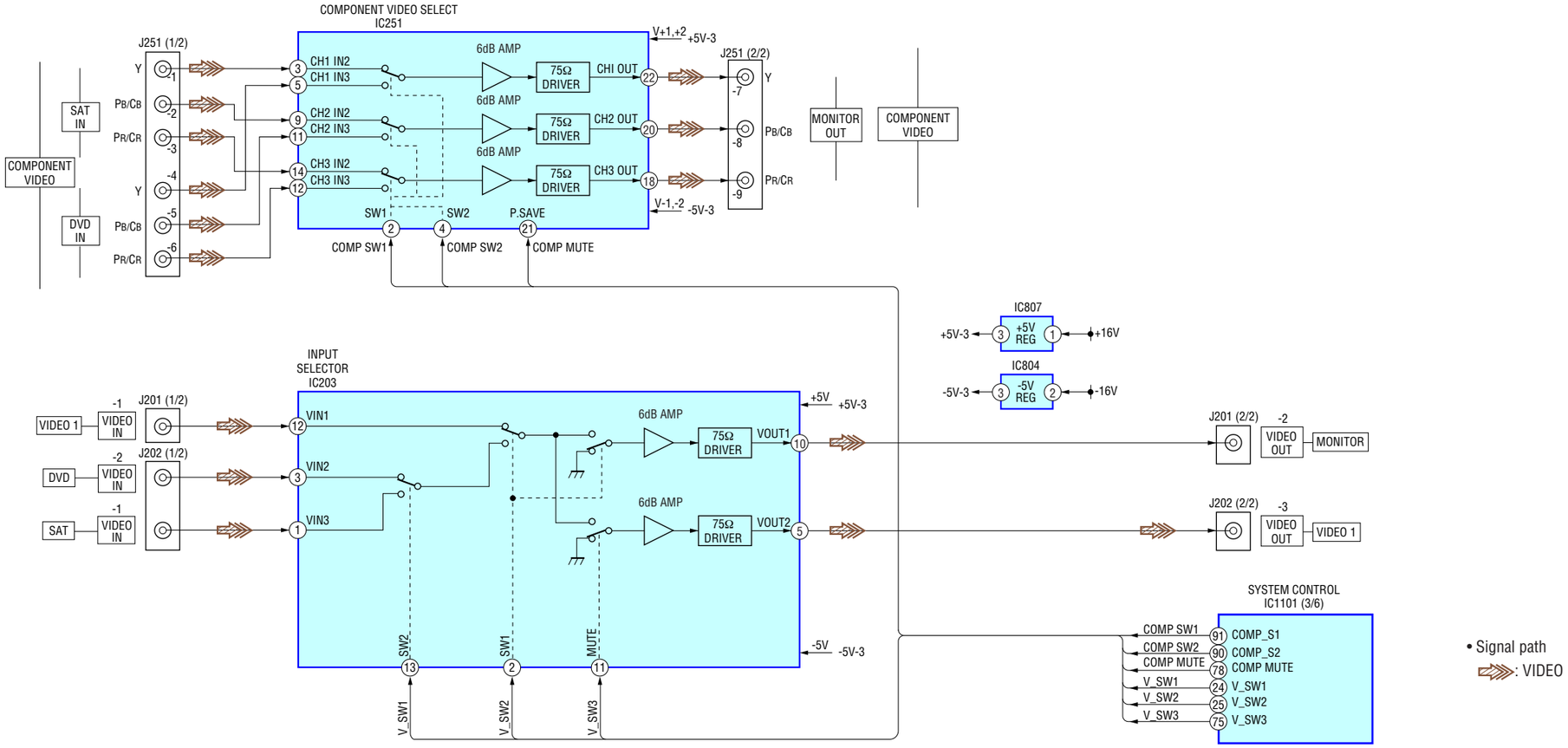


5-2. BLOCK DIAGRAM — DIGITAL SECTION —

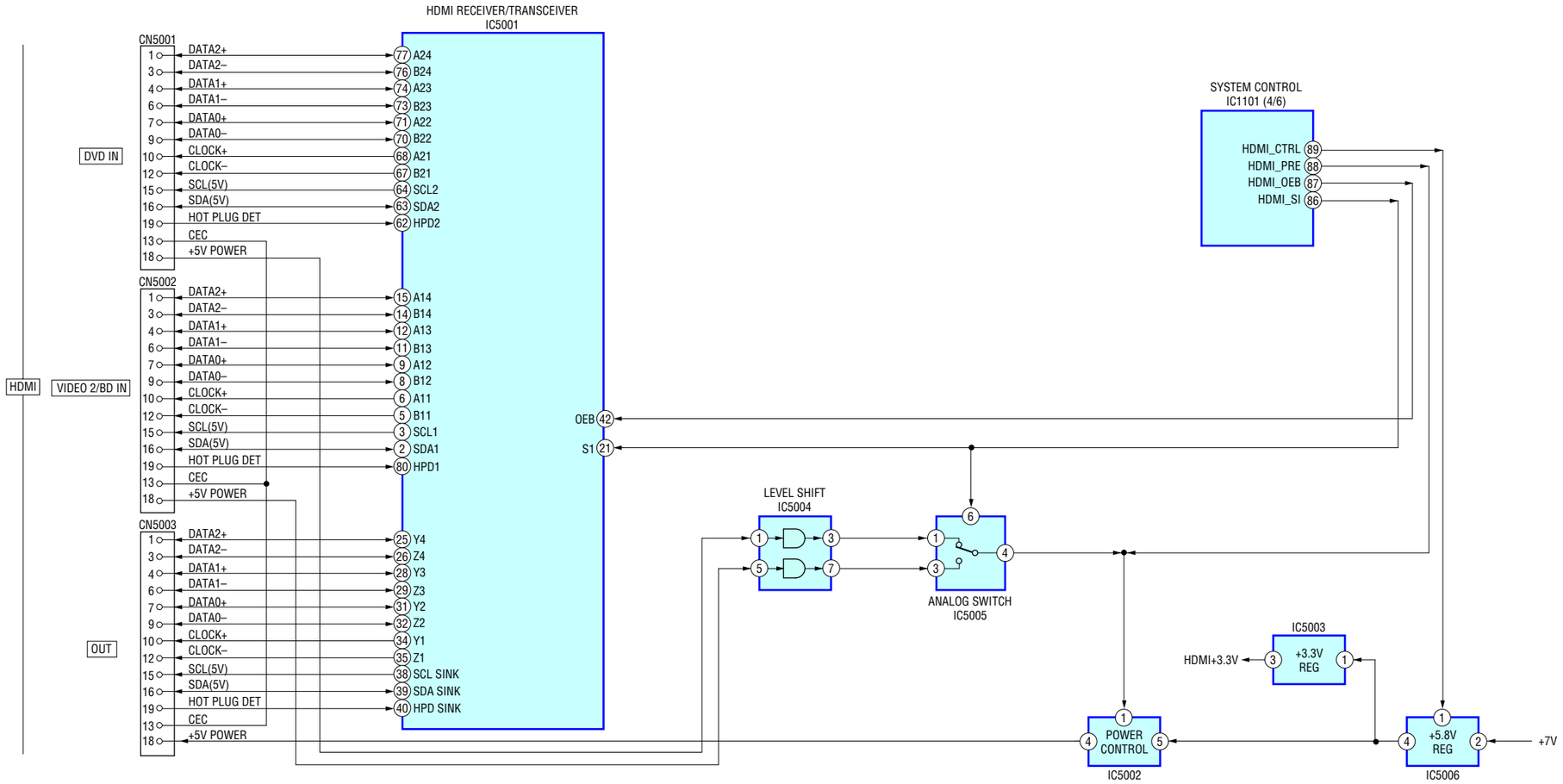


- Signal path
  - : TUNER (FM/AM)
  - : VIDEO (AUDIO)
  - : DVD (DIGITAL)
- R-ch is omitted due to same as L-ch.

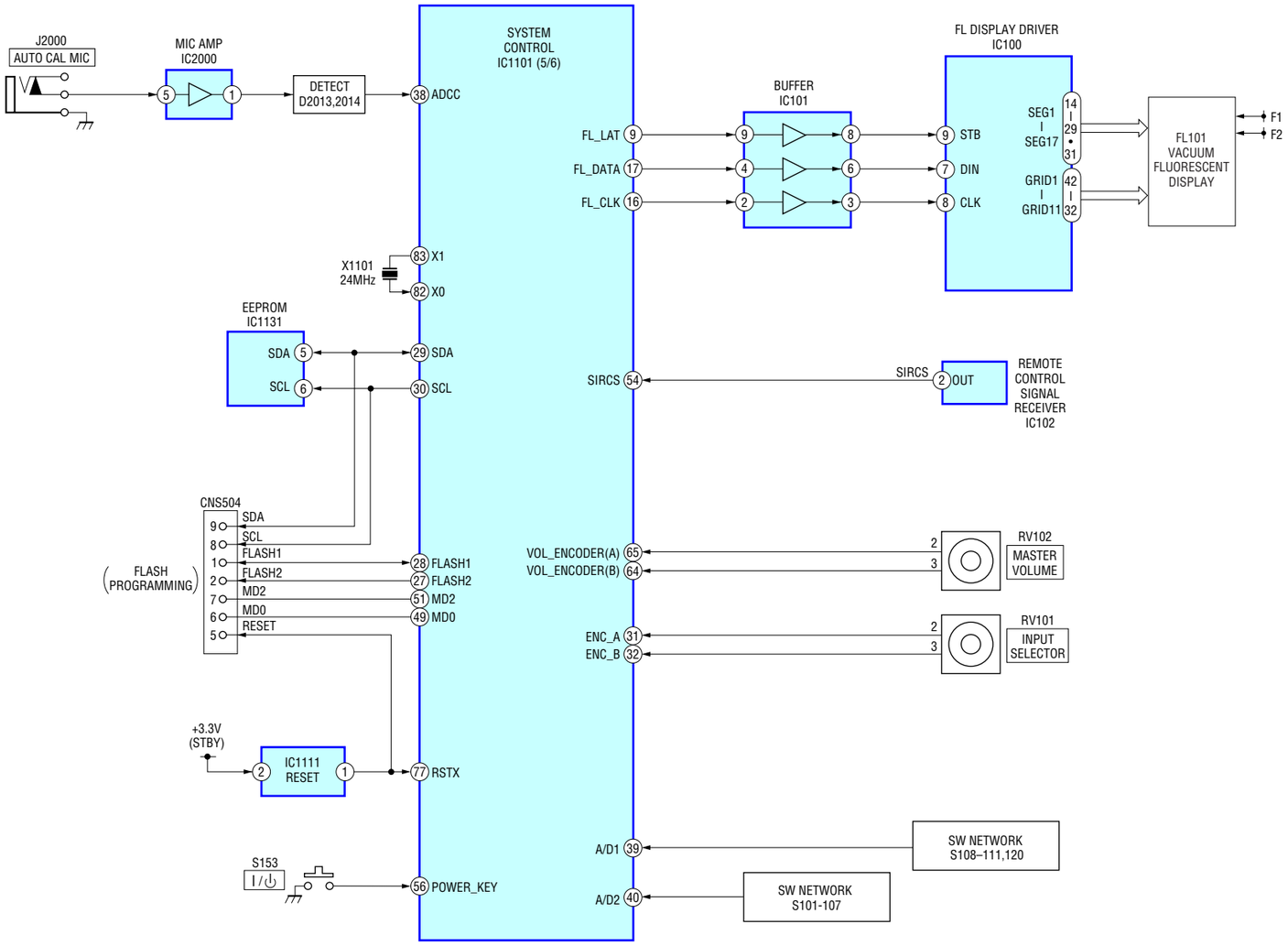
5-3. BLOCK DIAGRAM — VIDEO SECTION —



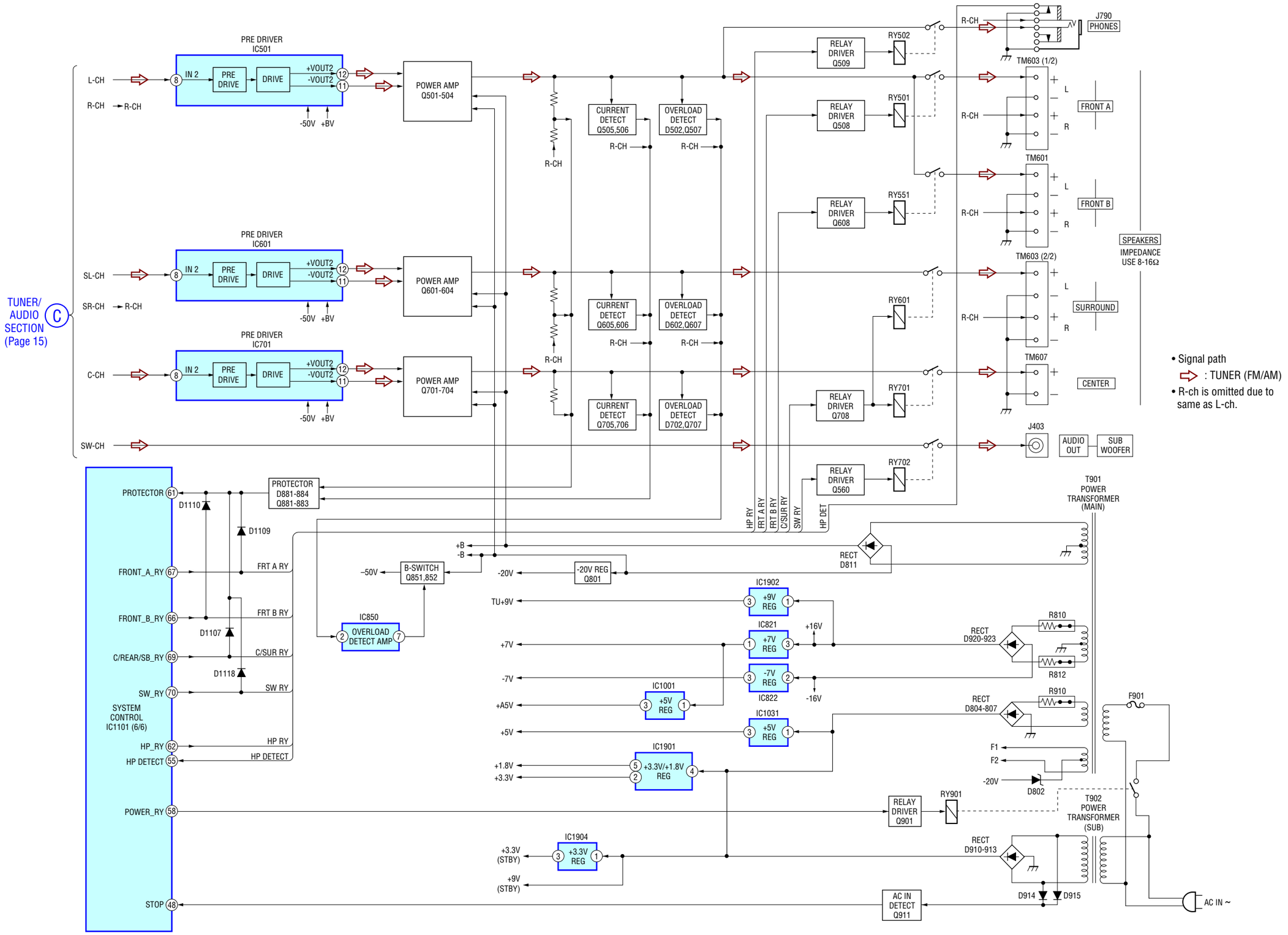
5-4. BLOCK DIAGRAM — HDMI SW SECTION —



5-5. BLOCK DIAGRAM — KEY/DISPLAY SECTION —



5-6. BLOCK DIAGRAM — POWER SECTION —



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

for schematic diagram:

- All capacitors are in µF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

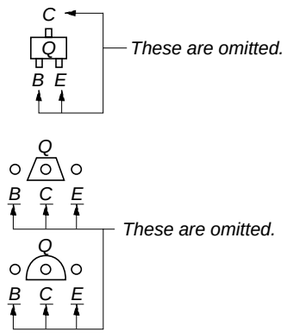
- : B+ Line.
- : B– Line.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  : TUNER (FM/AM)
  : VIDEO (AUDIO)
  : VIDEO
  : DVD (DIGITAL)
  : CD (ANALOG)
- Abbreviation
  CND : Canadian model.

for printed wiring boards:

- : parts extracted from the component side.
- △ : internal component.
- : Pattern from the side which enables seeing.

Caution:	
Pattern face side: (Side B)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Side A)	Parts on the parts face side seen from the parts face are indicated.

- Abbreviation
  CND : Canadian model.

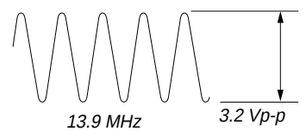


• Waveforms
— DIGITAL Board —

① IC1301 ⑬ (CKOUT)

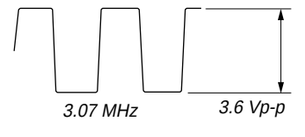
1V/DIV, 50nsec/DIV

⑤ IC1905 ⑫ (MCLK2)



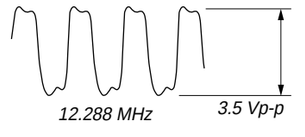
1V/DIV, 50nsec/DIV

② IC1301 ⑭ (BCK)



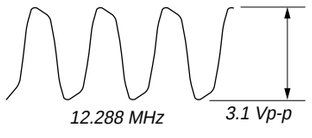
1V/DIV, 0.2µs/DIV

⑥ IC1905 ⑭ (SCKOUT)



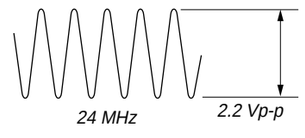
1V/DIV, 50nsec/DIV

③ IC1301 ㉑ (XOUT)



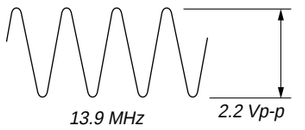
1V/DIV, 50nsec/DIV

⑦ IC1101 ㉝ (X1)



1V/DIV, 50nsec/DIV

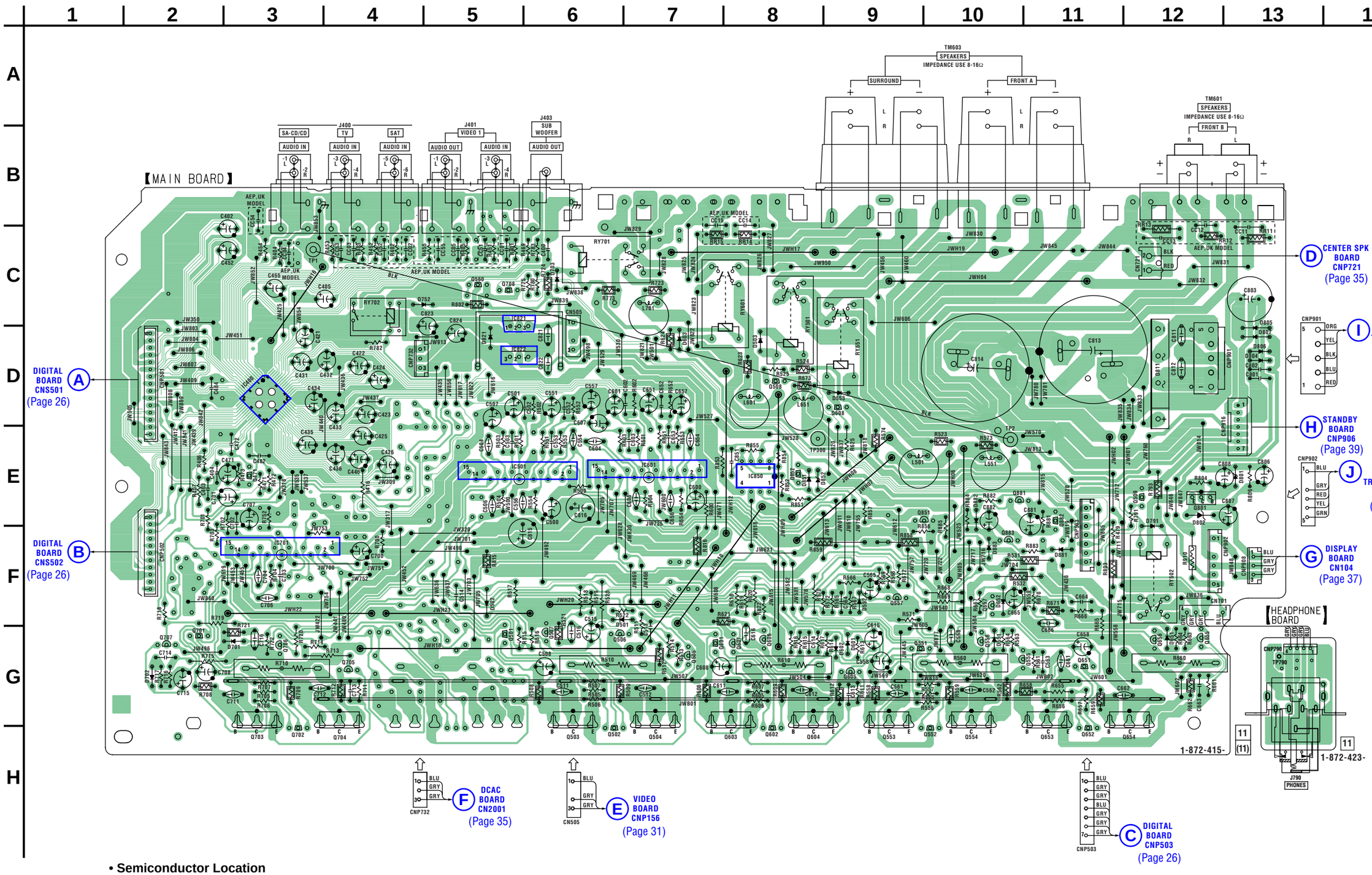
④ IC1905 ⑨ (MCLK1)



1V/DIV, 50nsec/DIV

5-7. PRINTED WIRING BOARDS — MAIN SECTION —

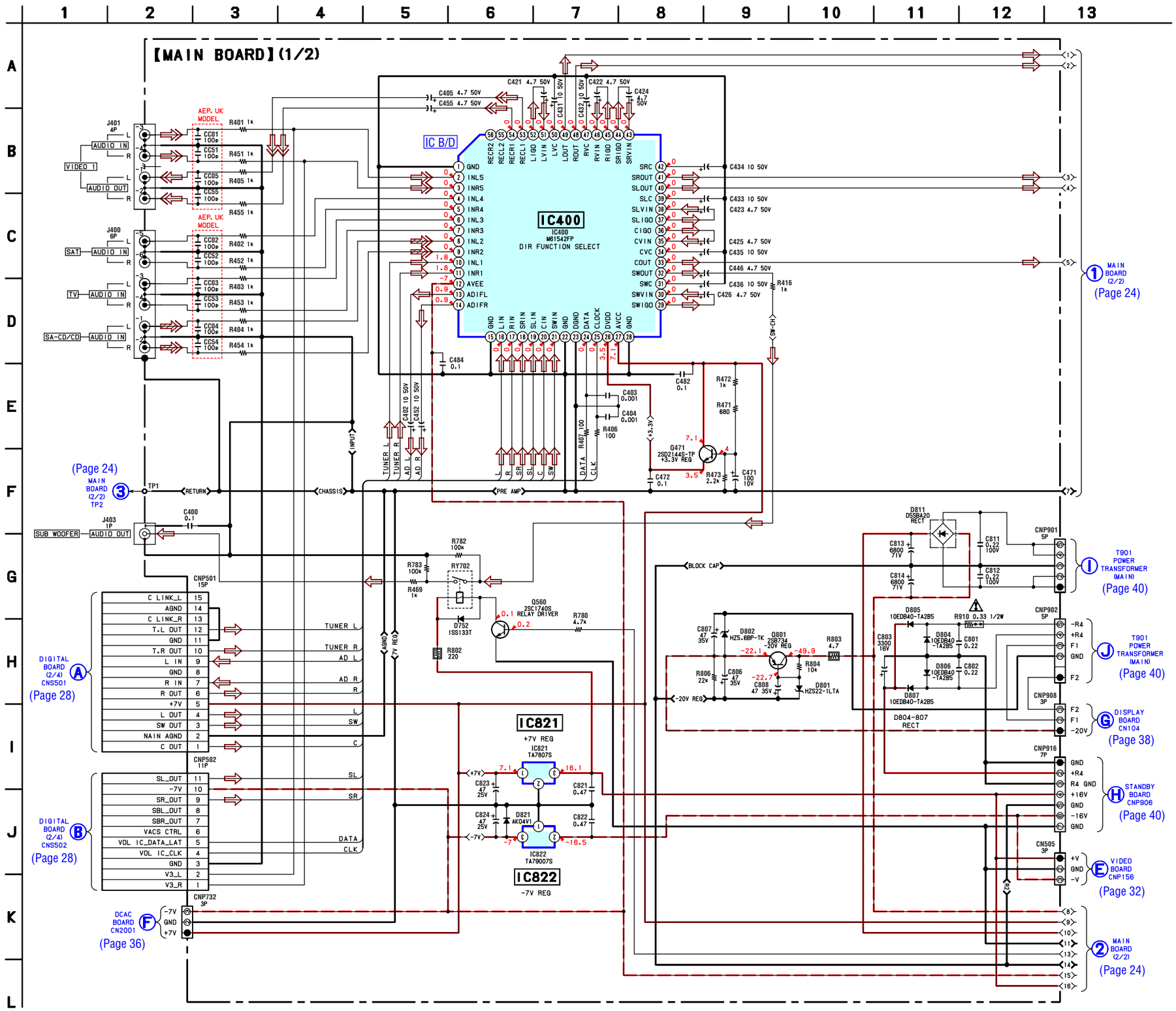
• Refer to page 14 for Circuit Boards Location. : Uses unleaded solder.



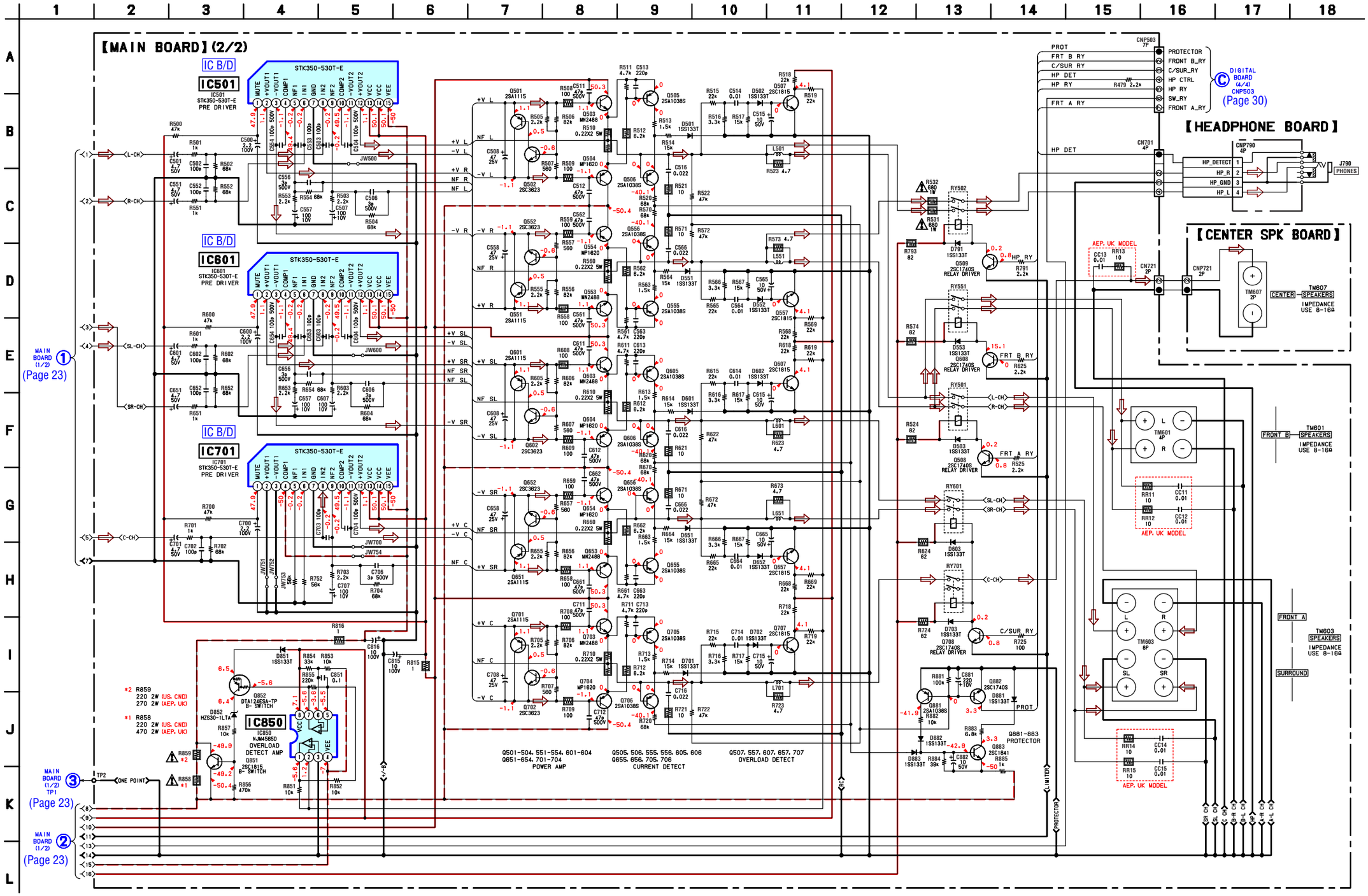
• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D501	F-6	D652	F-10	D806	D-13	IC400	D-3	Q502	H-6	Q553	H-9	Q605	G-9	Q657	F-10	Q851	E-10
D502	F-5	D701	G-3	D807	D-13	IC501	E-5	Q503	H-6	Q554	H-10	Q606	G-8	Q701	G-2	Q852	E-8
D503	D-8	D702	G-2	D811	D-12	IC601	E-7	Q504	H-7	Q555	G-10	Q607	G-8	Q702	H-3	Q881	E-10
D551	G-10	D703	C-6	D821	D-5	IC701	F-3	Q505	G-7	Q556	G-10	Q608	D-9	Q703	H-3	Q882	E-11
D552	F-9	D752	C-5	D851	E-8	IC821	C-5	Q506	G-6	Q557	F-9	Q651	G-11	Q704	H-4	Q883	F-10
D553	D-9	D791	E-12	D852	E-8	IC822	D-5	Q507	G-6	Q560	C-5	Q652	H-11	Q705	G-4		
D601	G-9	D801	E-13	D881	F-11	IC850	E-8	Q508	D-8	Q601	G-7	Q653	H-11	Q706	G-3		
D602	G-9	D802	E-12	D882	E-10			Q509	E-12	Q602	H-8	Q654	H-12	Q707	G-2		
D603	D-7	D804	D-13	D883	F-10	Q471	E-3	Q551	G-9	Q603	H-8	Q655	G-12	Q708	C-5		
D651	G-12	D805	D-13			Q501	G-5	Q552	H-10	Q604	H-8	Q656	G-12	Q801	E-12		

5-8. SCHEMATIC DIAGRAM — MAIN SECTION (1/2) — • Refer to page 41 for IC Block Diagrams.

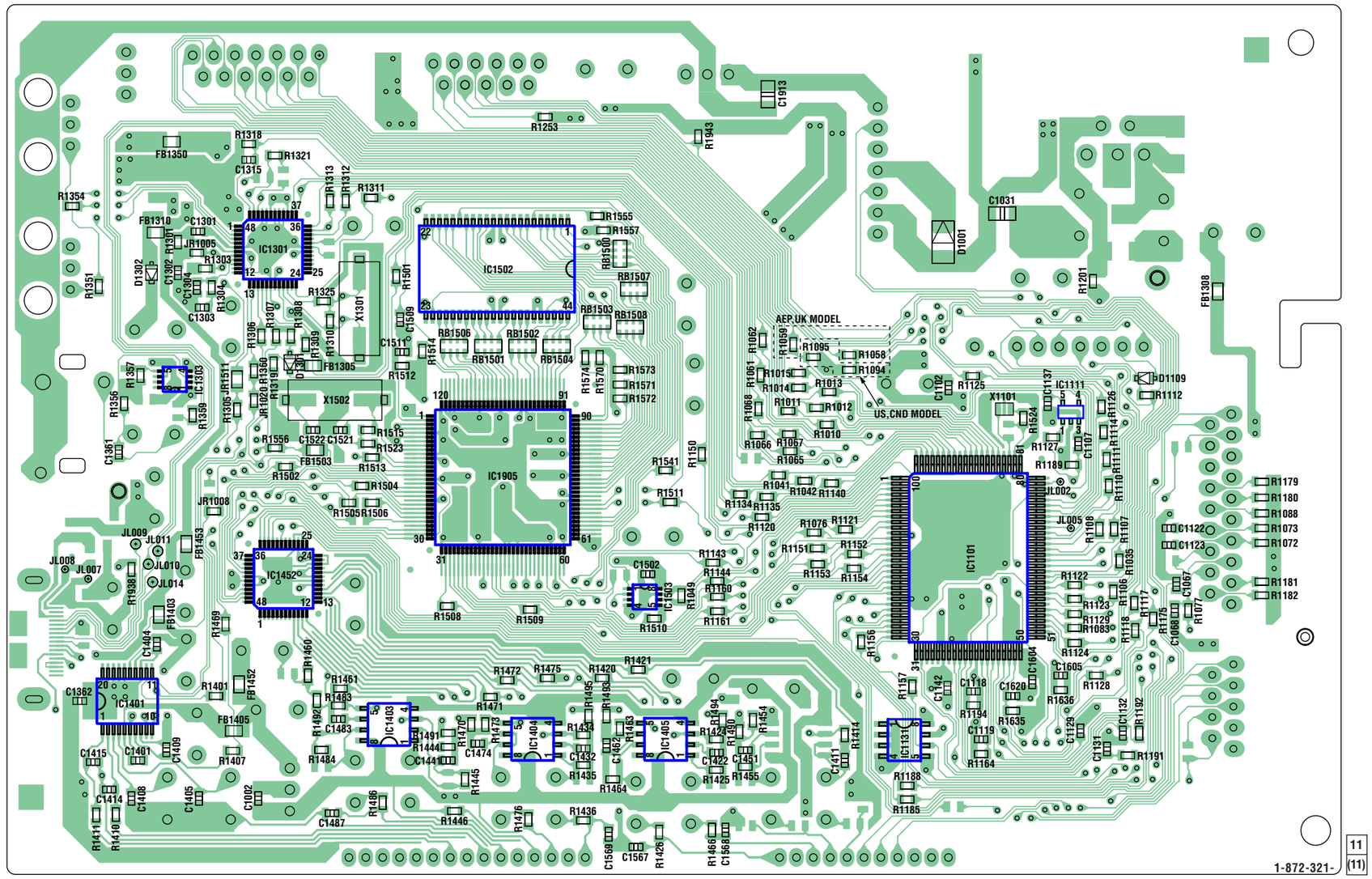


5-9. SCHEMATIC DIAGRAM — MAIN SECTION (2/2) — • Refer to page 41 for IC Block Diagrams.



5-10. PRINTED WIRING BOARD — DIGITAL SECTION (1/2) — • Refer to page 14 for Circuit Boards Location. : Uses unleaded solder.

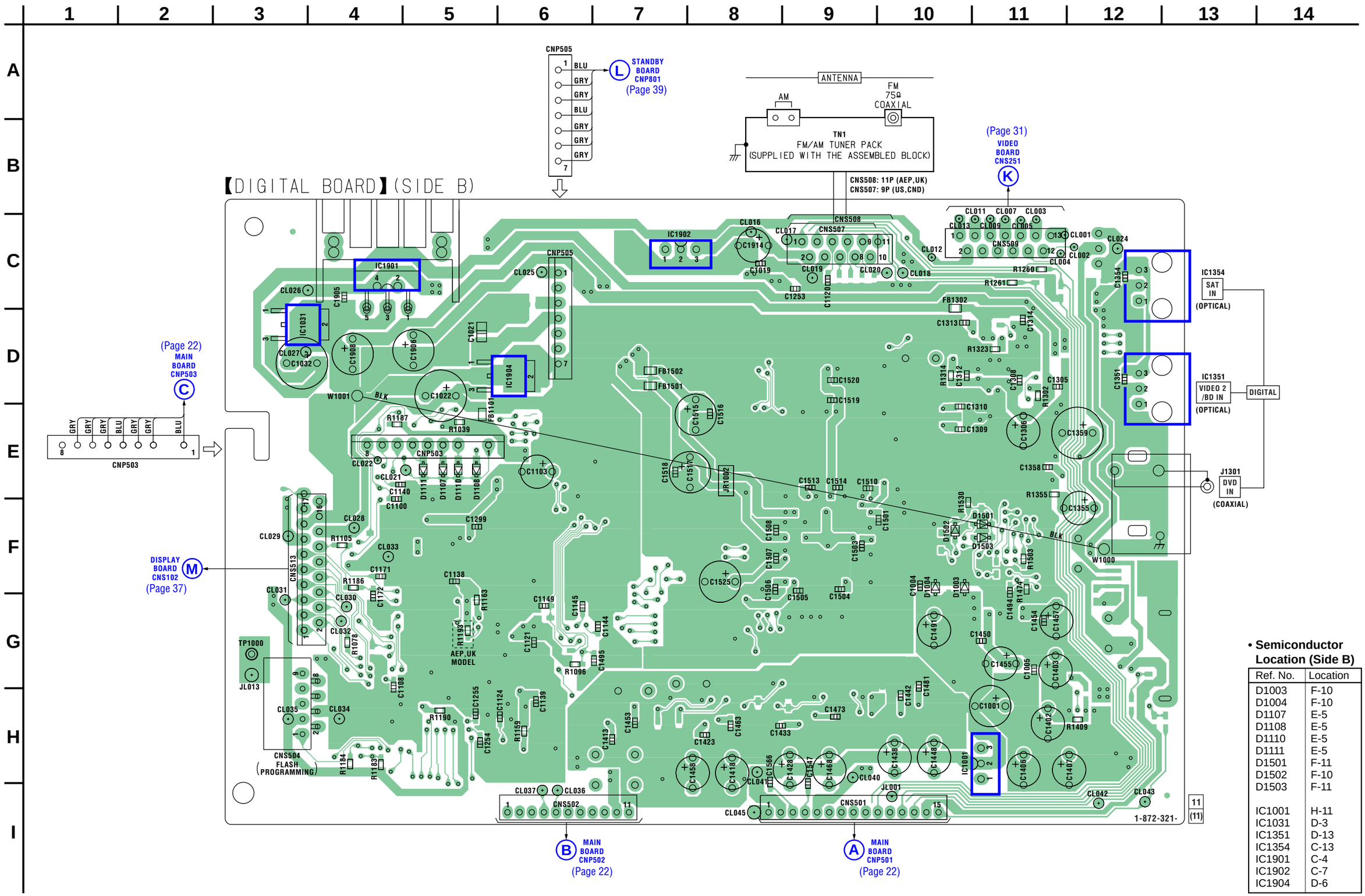
【DIGITAL BOARD】(SIDE A)



• **Semiconductor Location (Side A)**

Ref. No.	Location
D1001	D-6
D1109	E-4
D1301	E-11
D1302	D-12
IC1101	G-5
IC1111	E-5
IC1131	H-6
IC1301	D-11
IC1303	E-11
IC1401	H-12
IC1403	H-10
IC1404	H-9
IC1405	H-8
IC1452	G-11
IC1502	D-9
IC1503	G-8
IC1905	F-9

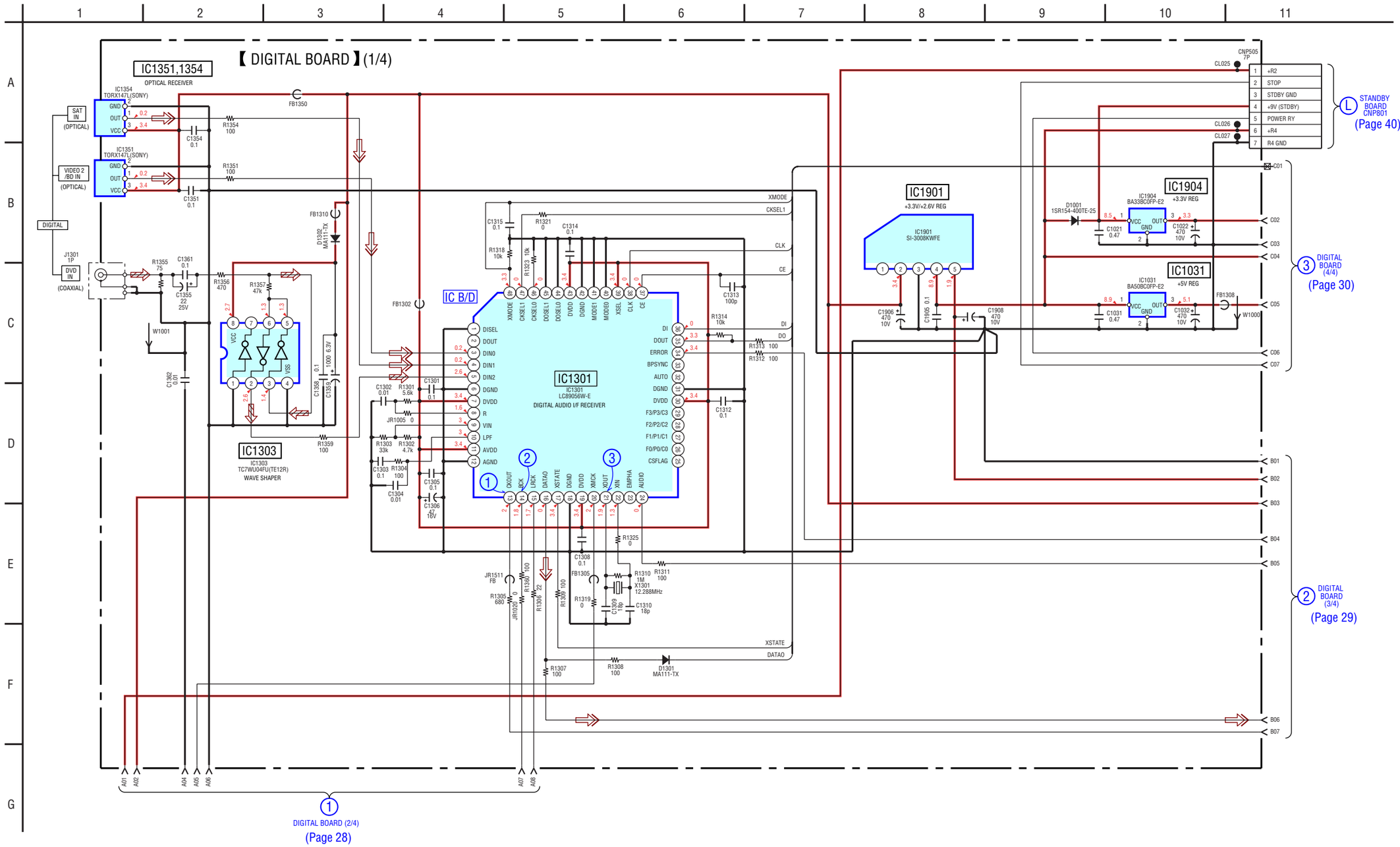
5-11. PRINTED WIRING BOARD — DIGITAL SECTION (2/2) — • Refer to page 14 for Circuit Boards Location. : Uses unleaded solder.



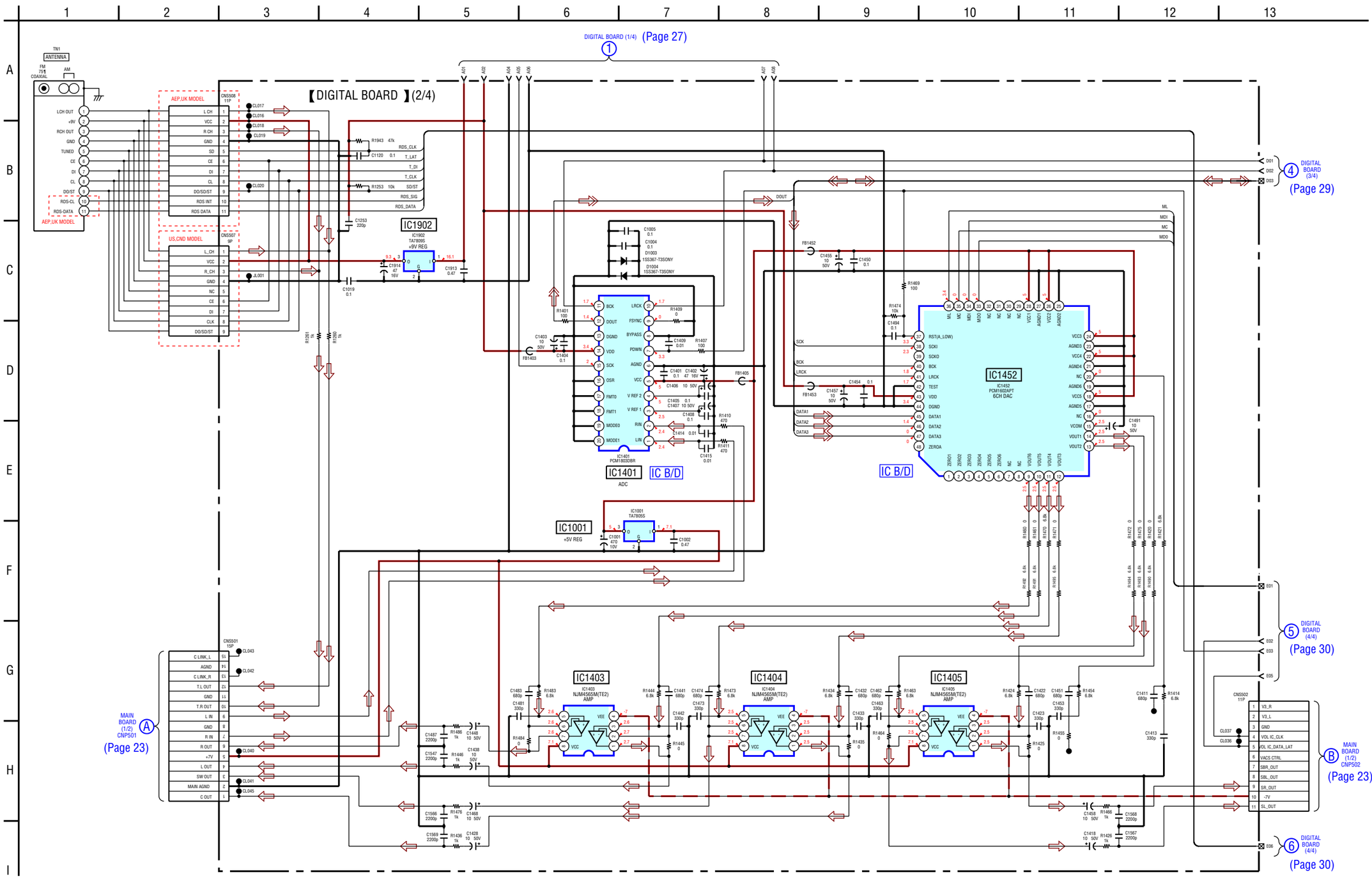
- **Semiconductor Location (Side B)**

Ref. No.	Location
D1003	F-10
D1004	F-10
D1107	E-5
D1108	E-5
D1110	E-5
D1111	E-5
D1501	F-11
D1502	F-10
D1503	F-11
IC1001	H-11
IC1031	D-3
IC1351	D-13
IC1354	C-13
IC1901	C-4
IC1902	C-7
IC1904	D-6

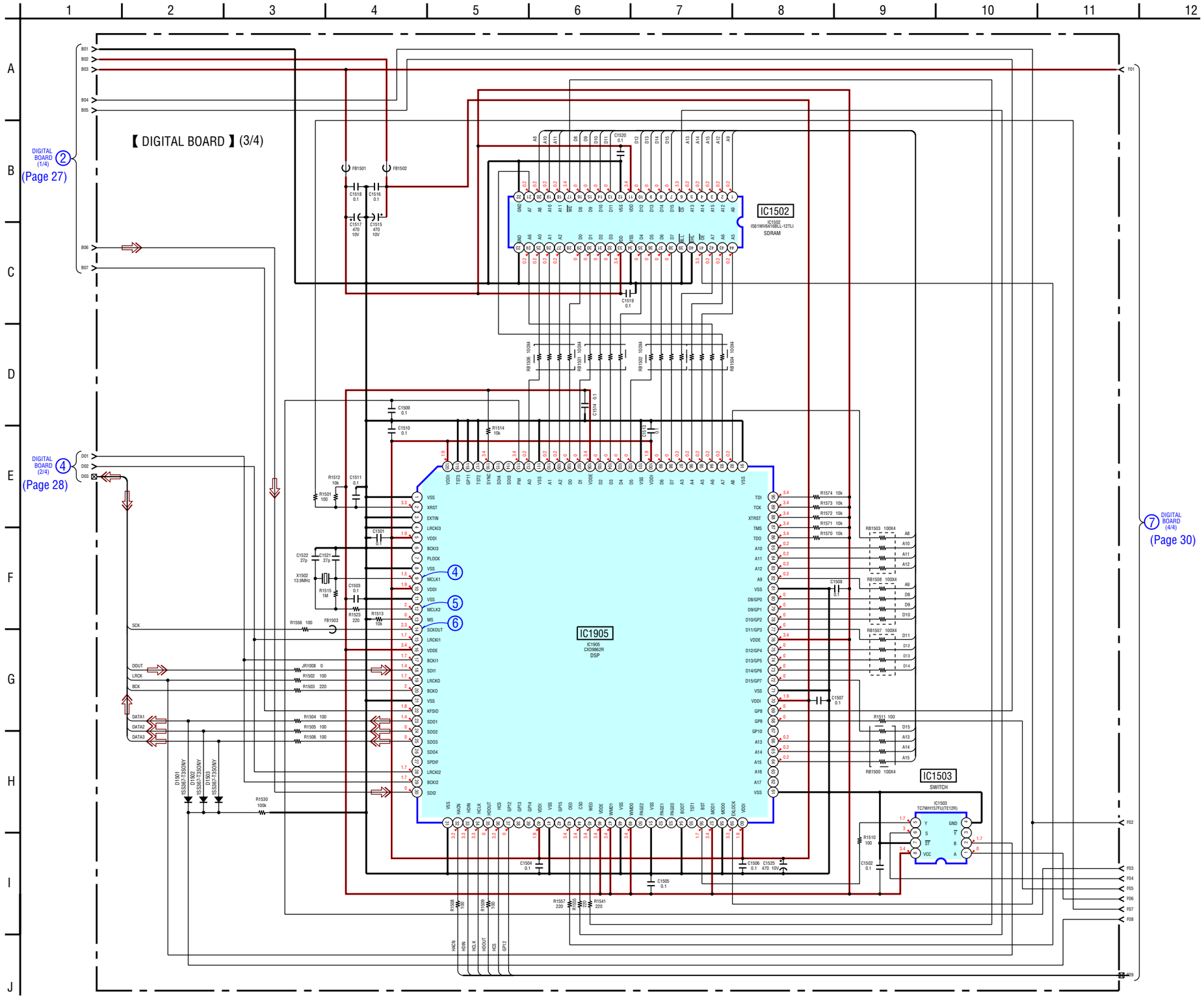
5-12. SCHEMATIC DIAGRAM — DIGITAL SECTION (1/4) — • Refer to page 21 for Waveforms and page 42 for IC Block Diagrams.



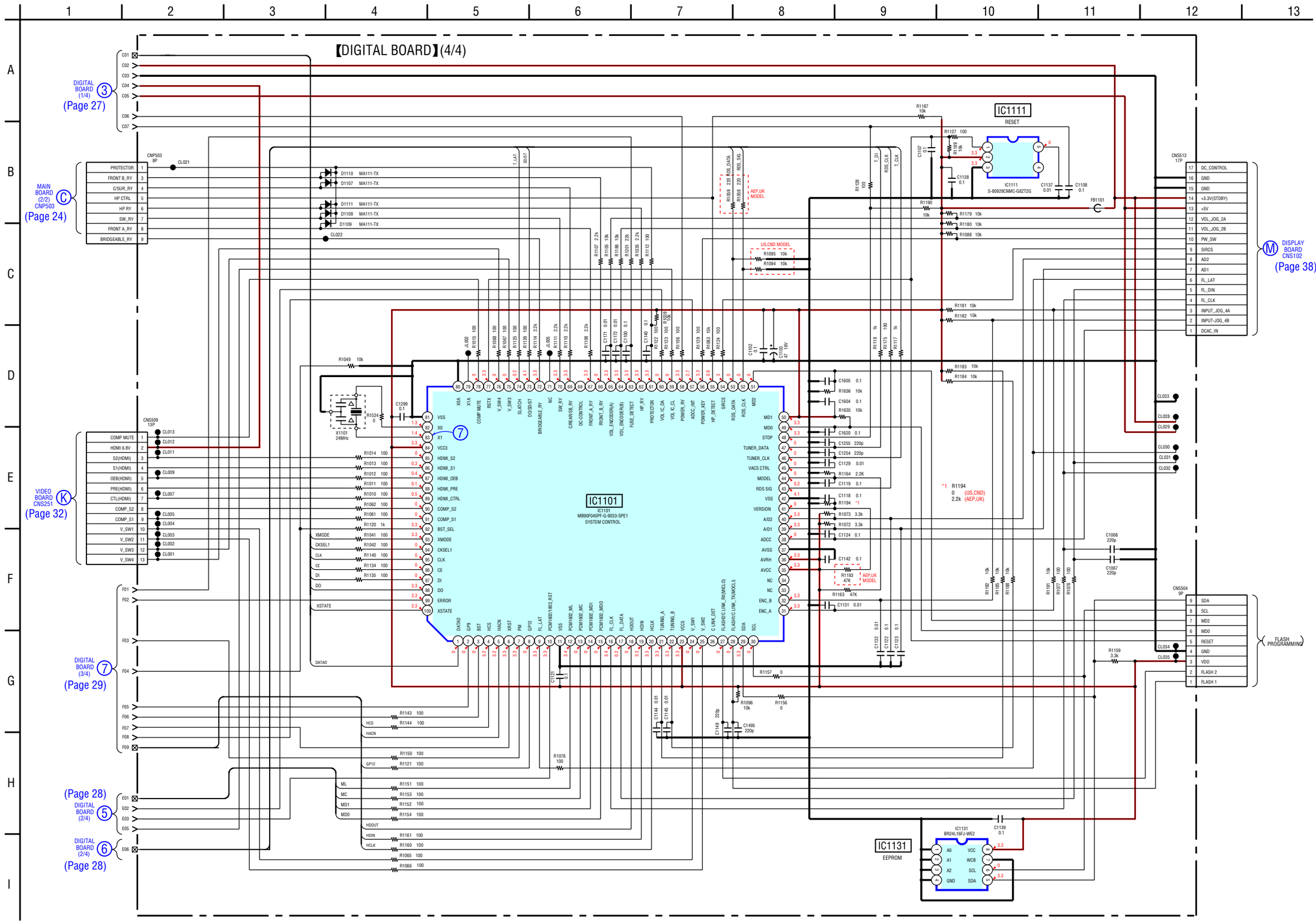
5-13. SCHEMATIC DIAGRAM — DIGITAL SECTION (2/4) — • Refer to page 42 for IC Block Diagrams.



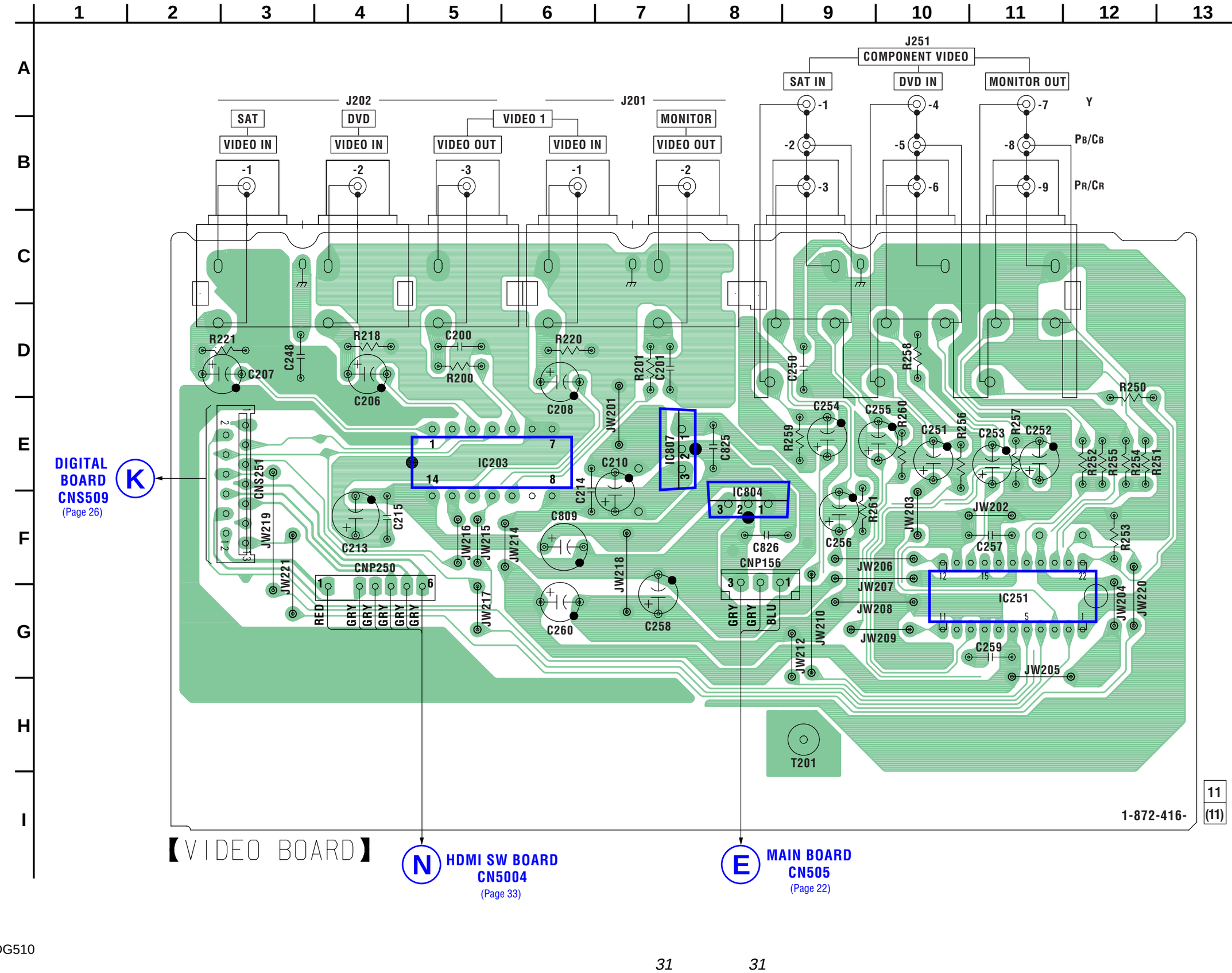
5-14. SCHEMATIC DIAGRAM — DIGITAL SECTION (3/4) — • Refer to page 21 for Waveforms and page 45 IC Pin Descriptions.



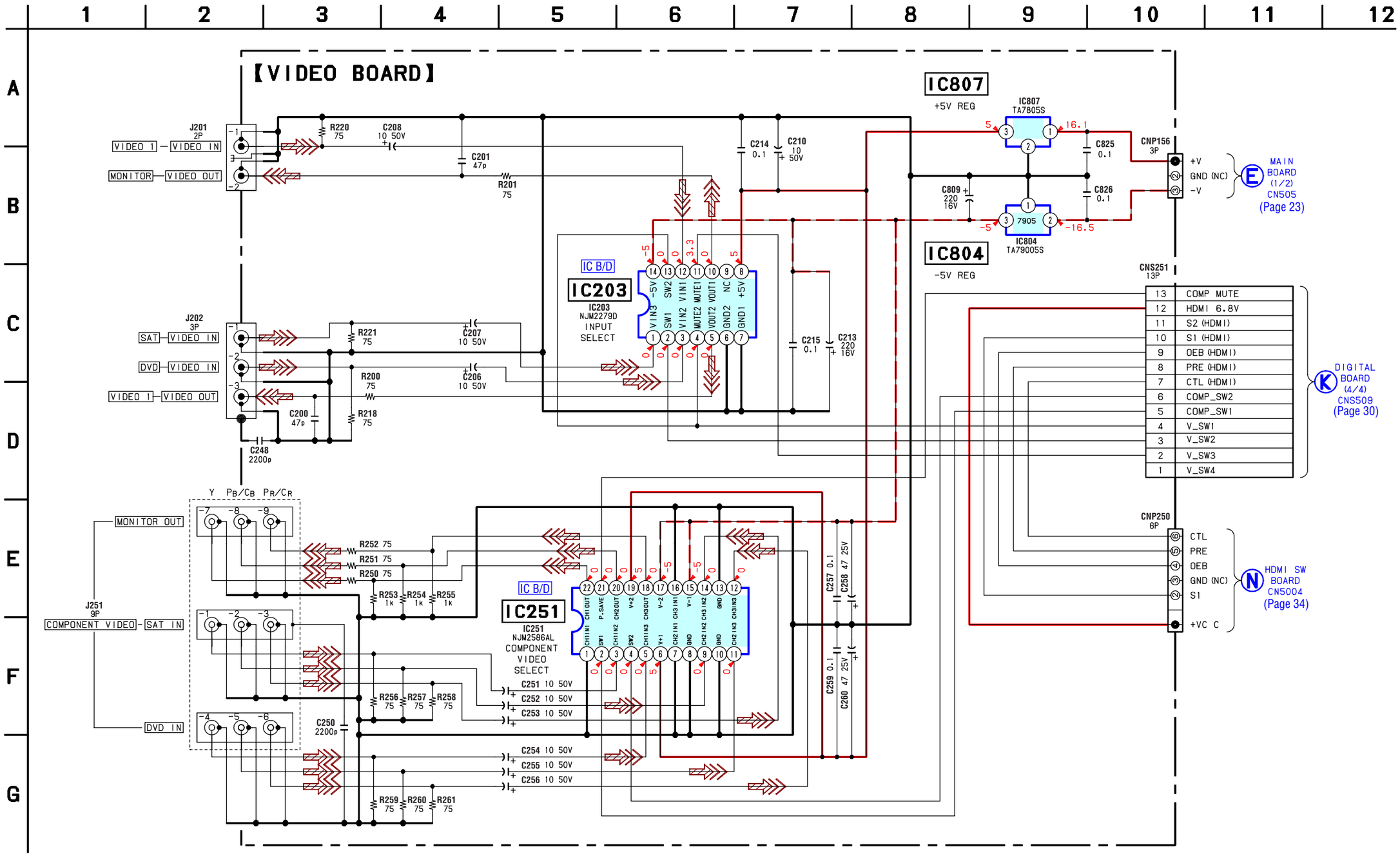
5-15. SCHEMATIC DIAGRAM — DIGITAL SECTION (4/4) — • Refer to page 21 for Waveforms and page 47 for IC Pin Descriptions.



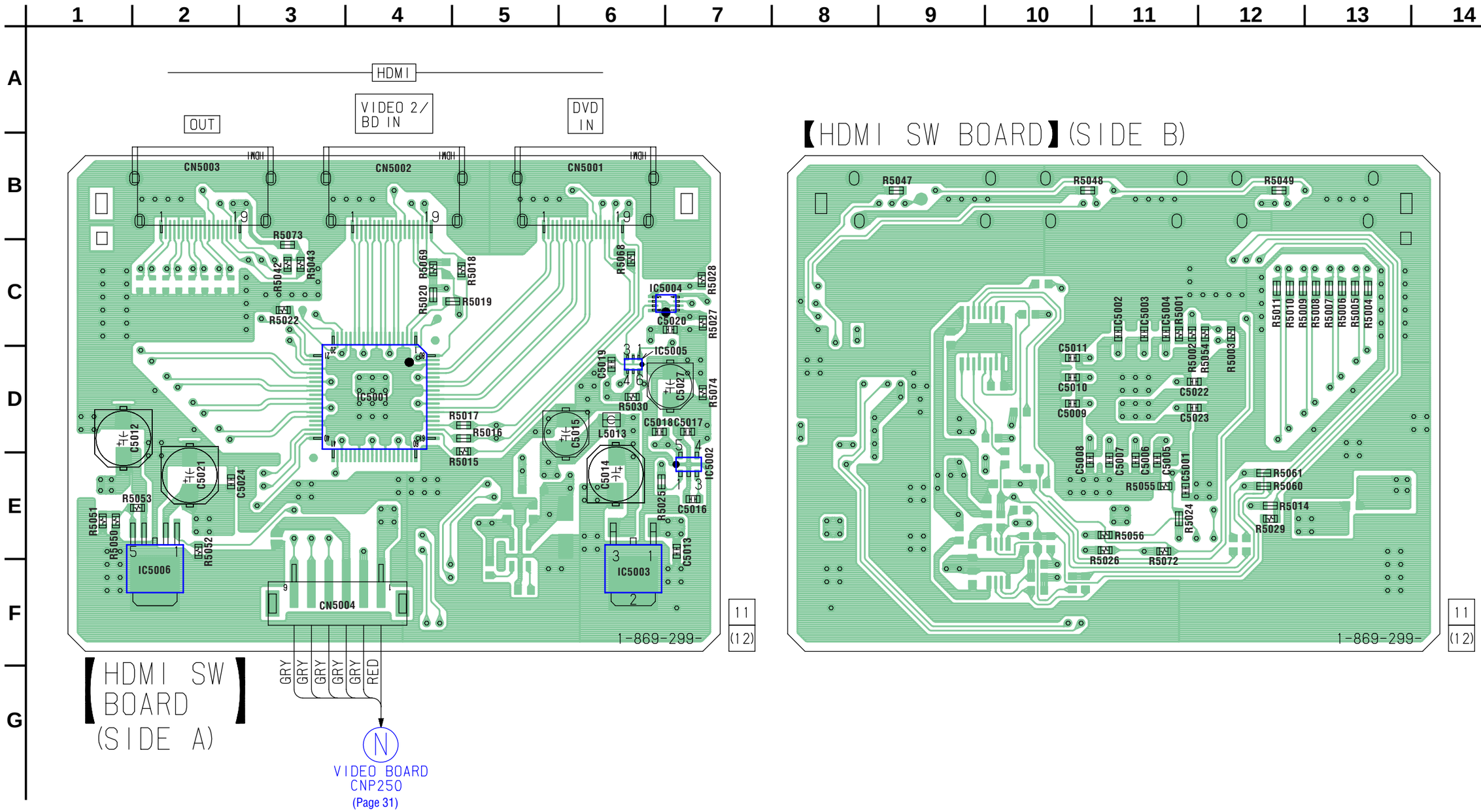
5-16. PRINTED WIRING BOARD — VIDEO SECTION — • Refer to page 14 for Circuit Boards Location. : Uses unleaded solder.



5-17. SCHEMATIC DIAGRAM — VIDEO SECTION — • Refer to page 43 for IC Block Diagrams.



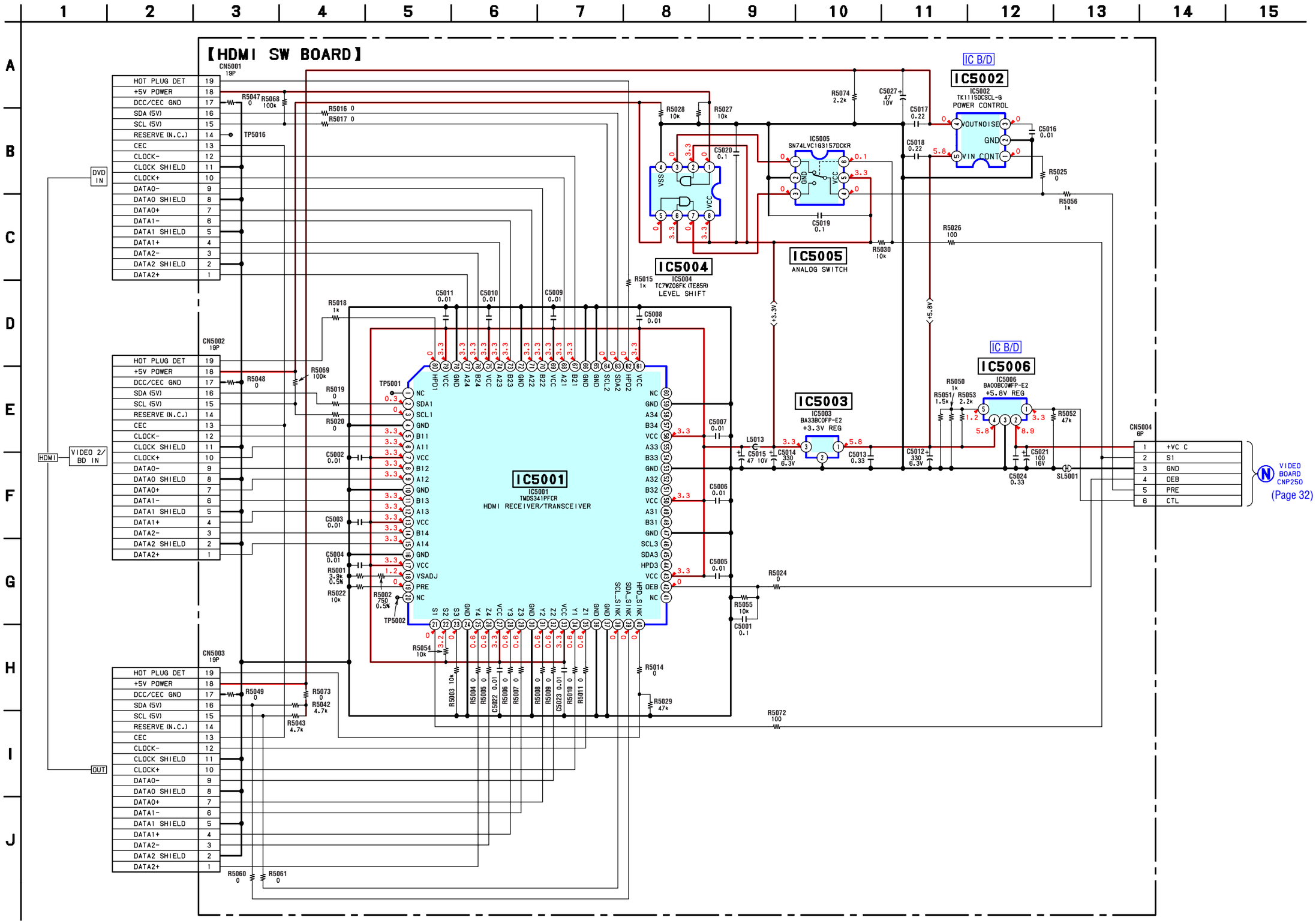
5-18. PRINTED WIRING BOARD — HDMI SW SECTION — • Refer to page 14 for Circuit Boards Location. : Uses unleaded solder.



• **Semiconductor Location**

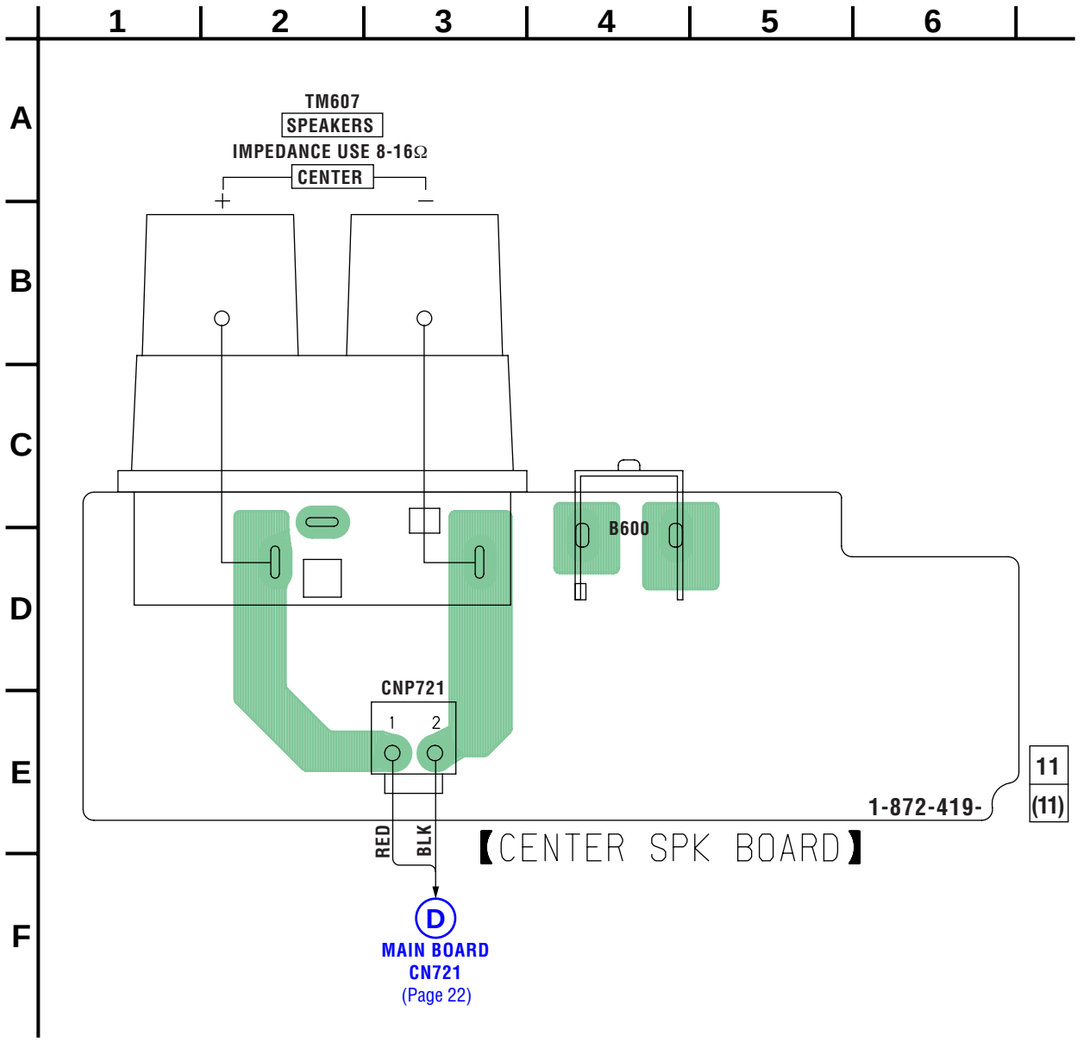
Ref. No.	Location
IC5001	D-4
IC5002	E-7
IC5003	F-6
IC5004	C-7
IC5005	D-6
IC5006	F-2

5-19. SCHEMATIC DIAGRAM — HDMI SW SECTION — • Refer to page 44 for IC Block Diagrams.



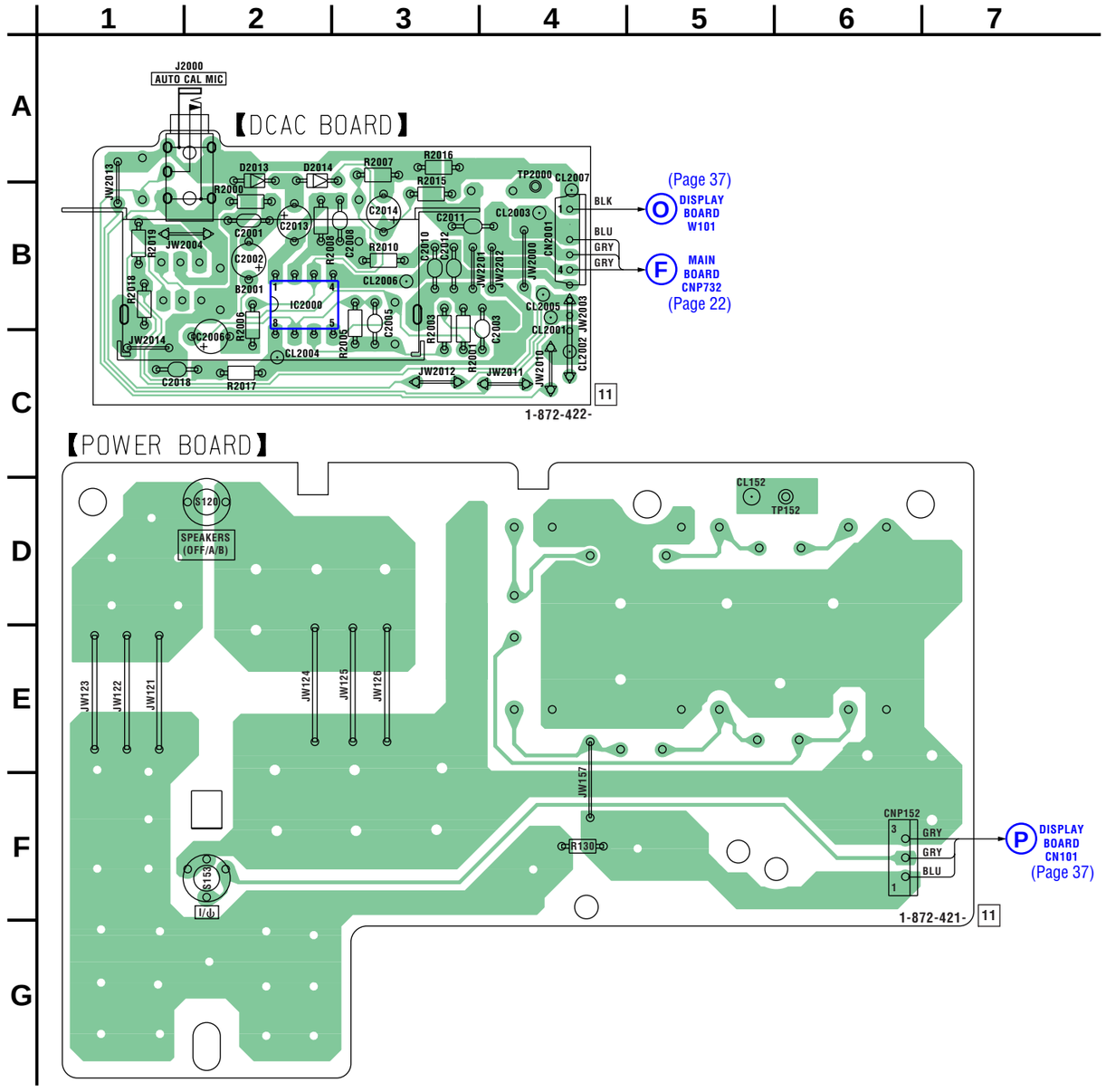
5-20. PRINTED WIRING BOARD — CENTER SPEAKER SECTION —

• Refer to page 14 for Circuit Boards Location. : Uses unleaded solder.

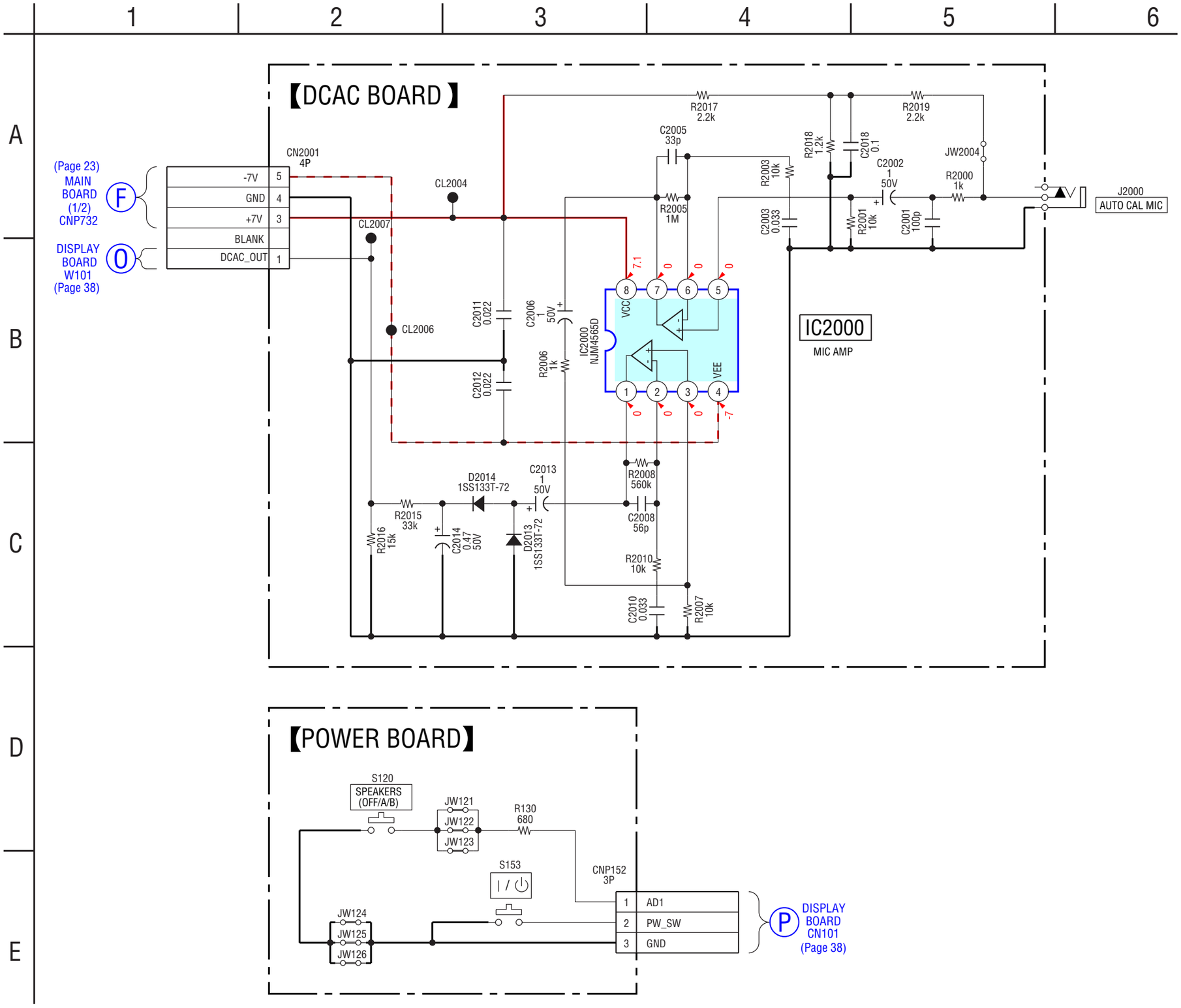


5-21. PRINTED WIRING BOARDS — DCAC, POWER KEY SECTION —

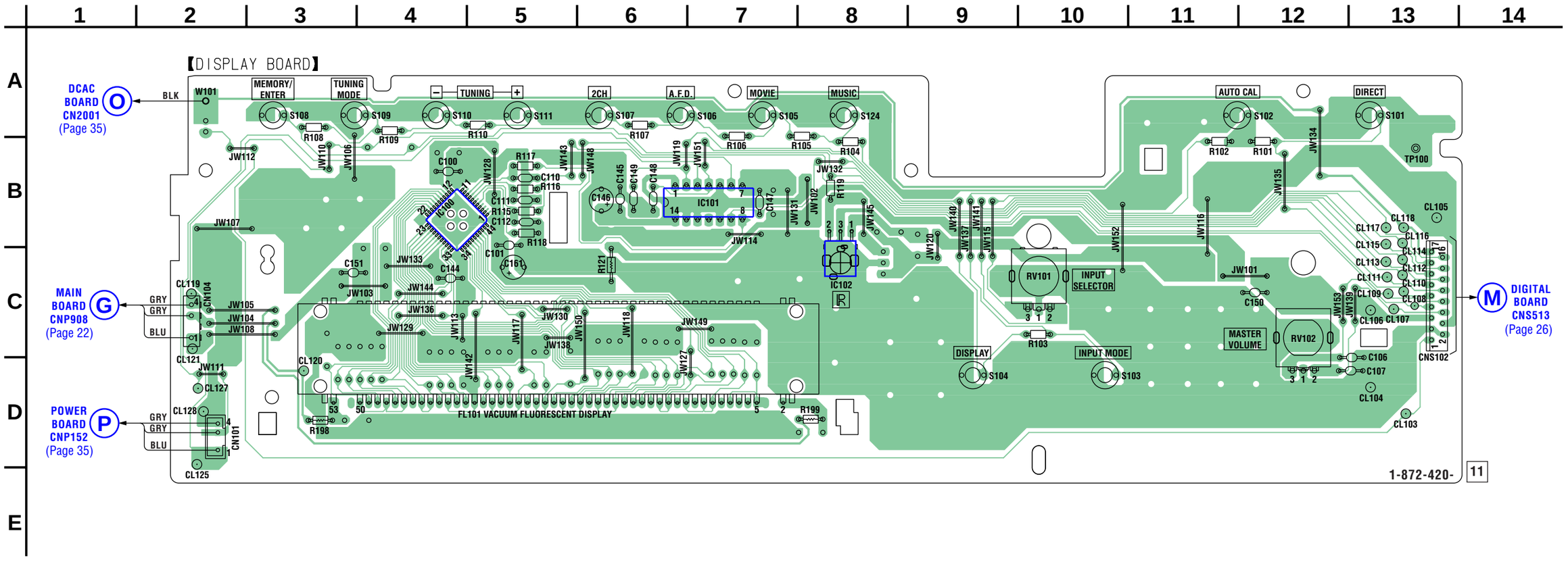
• Refer to page 14 for Circuit Boards Location. : Uses unleaded solder.



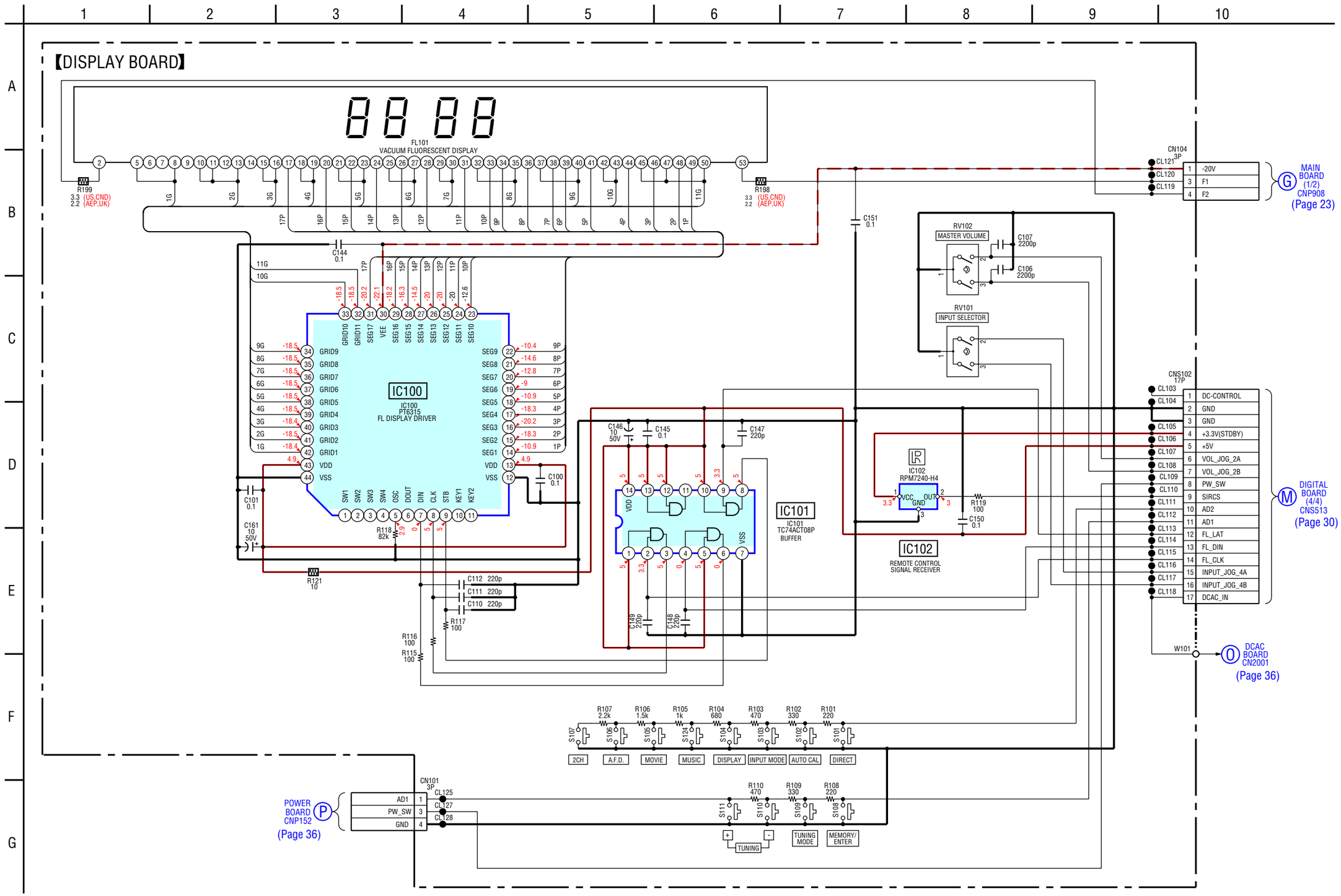
5-22. SCHEMATIC DIAGRAM — DCAC, POWER KEY SECTION —



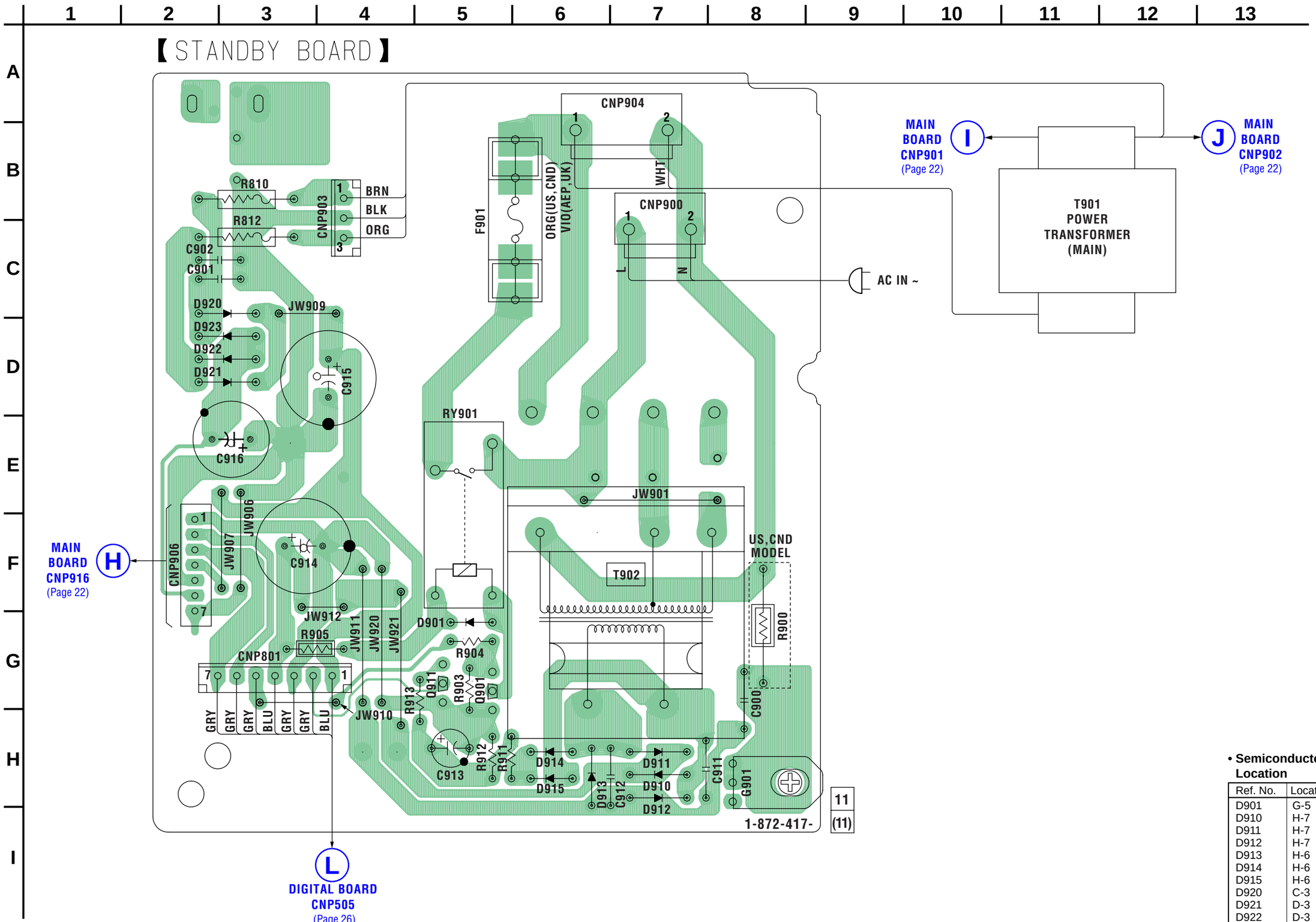
5-23. PRINTED WIRING BOARD — DISPLAY SECTION — • Refer to page 14 for Circuit Boards Location. : Uses unleaded solder.



5-24. SCHEMATIC DIAGRAM — DISPLAY SECTION —



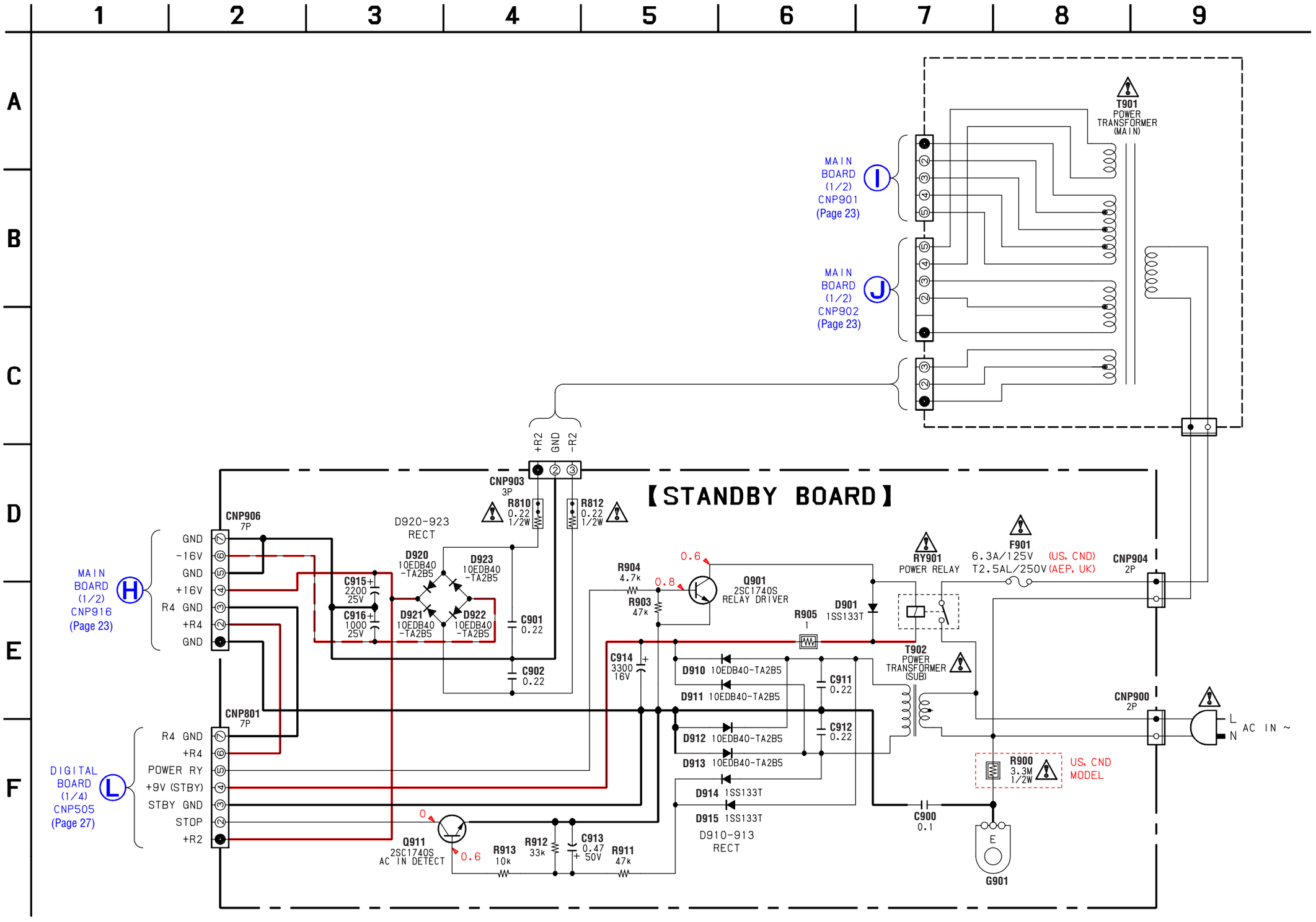
5-25. PRINTED WIRING BOARD — POWER SECTION — • Refer to page 14 for Circuit Boards Location. : Uses unleaded solder.



• **Semiconductor Location**

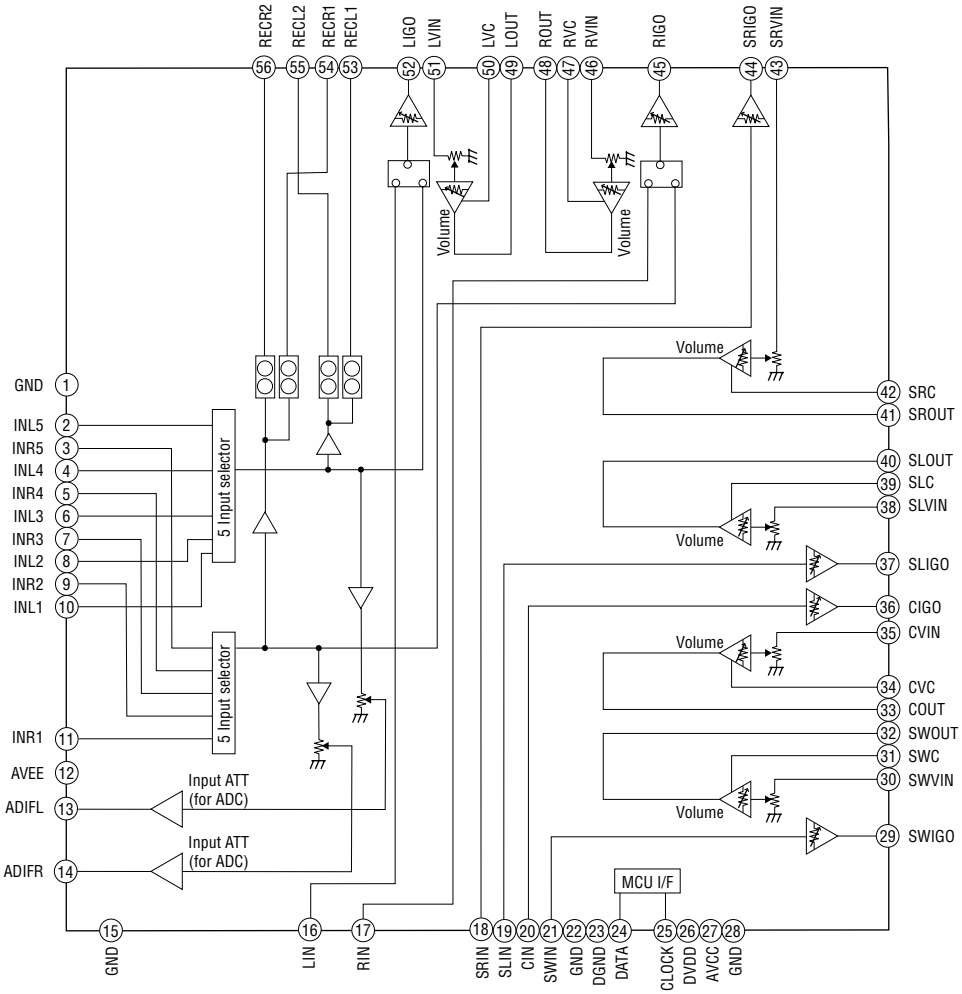
Ref. No.	Location
D901	G-5
D910	H-7
D911	H-7
D912	H-7
D913	H-6
D914	H-6
D915	H-6
D920	C-3
D921	D-3
D922	D-3
D923	D-3
Q901	G-5
Q911	G-5

5-26. SCHEMATIC DIAGRAM — POWER SECTION —

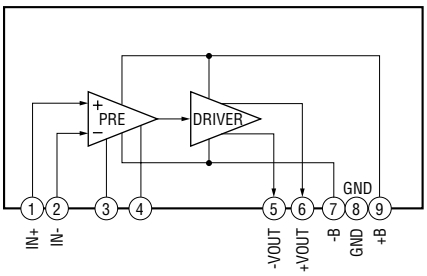


• IC Block Diagrams

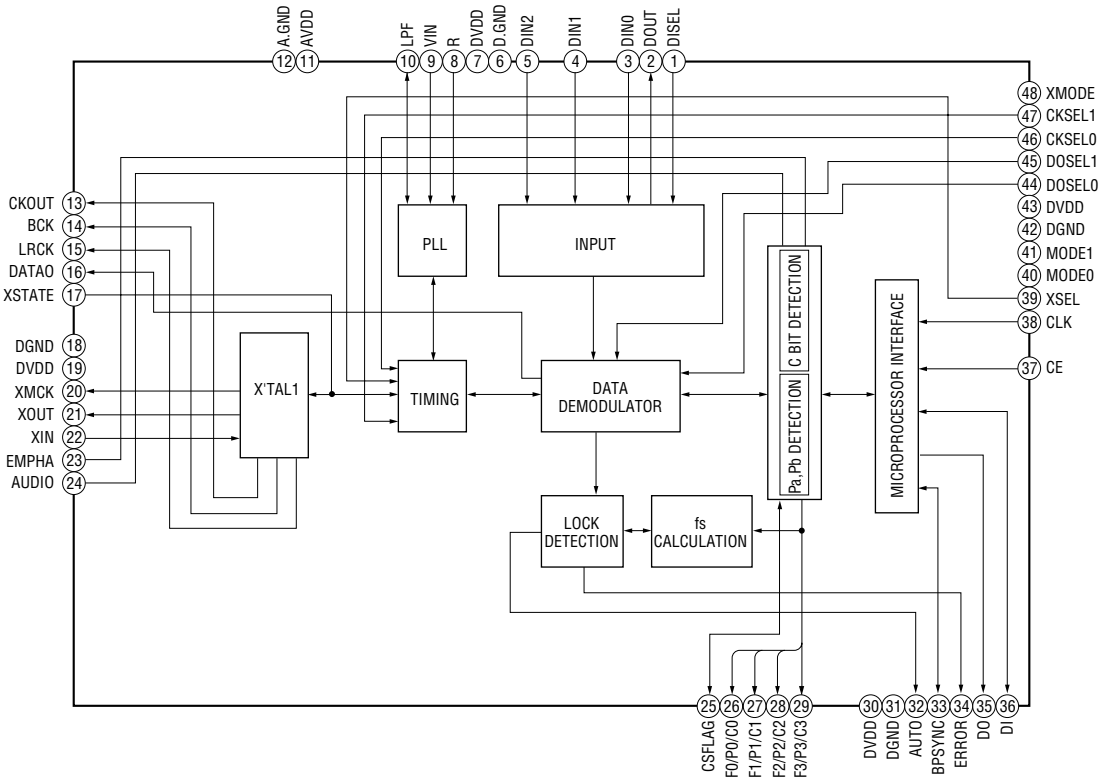
IC400 M61542FP (MAIN BOARD (1/2))



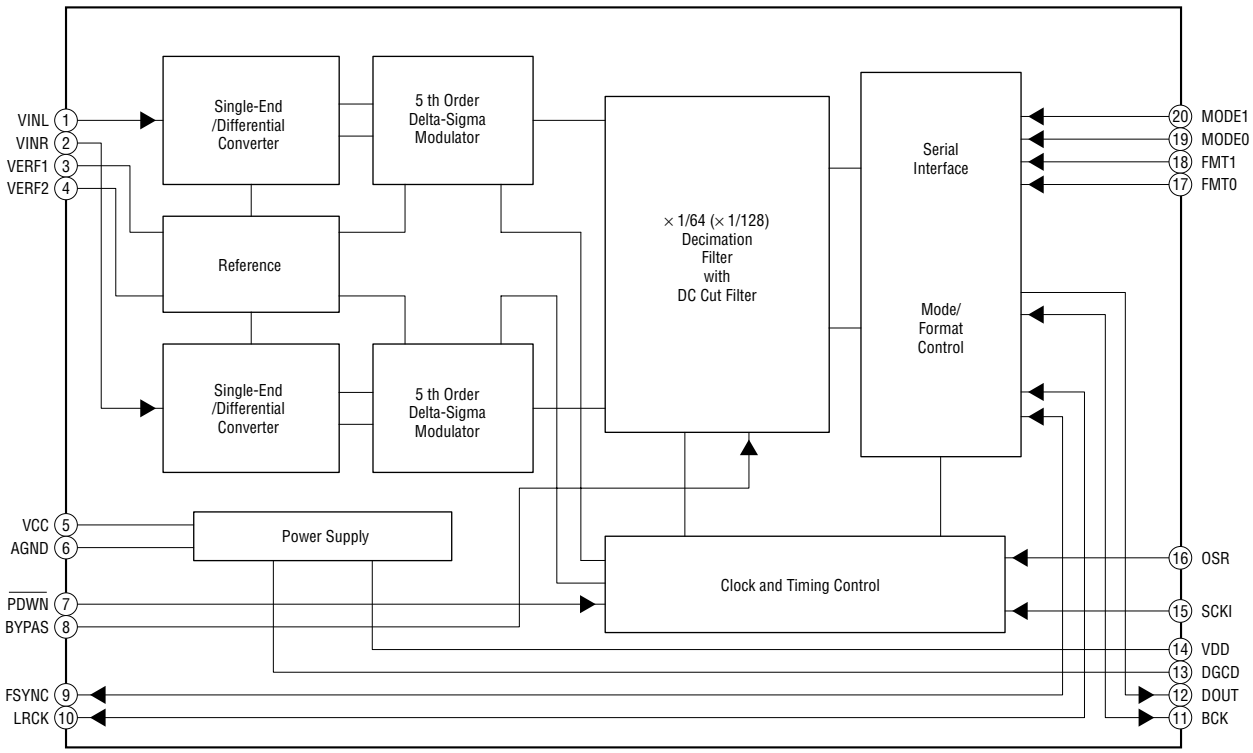
IC501 STK350-530T-E (MAIN BOARD (2/2))
IC601 STK350-530T-E (MAIN BOARD (2/2))
IC701 STK350-530T-E (MAIN BOARD (2/2))



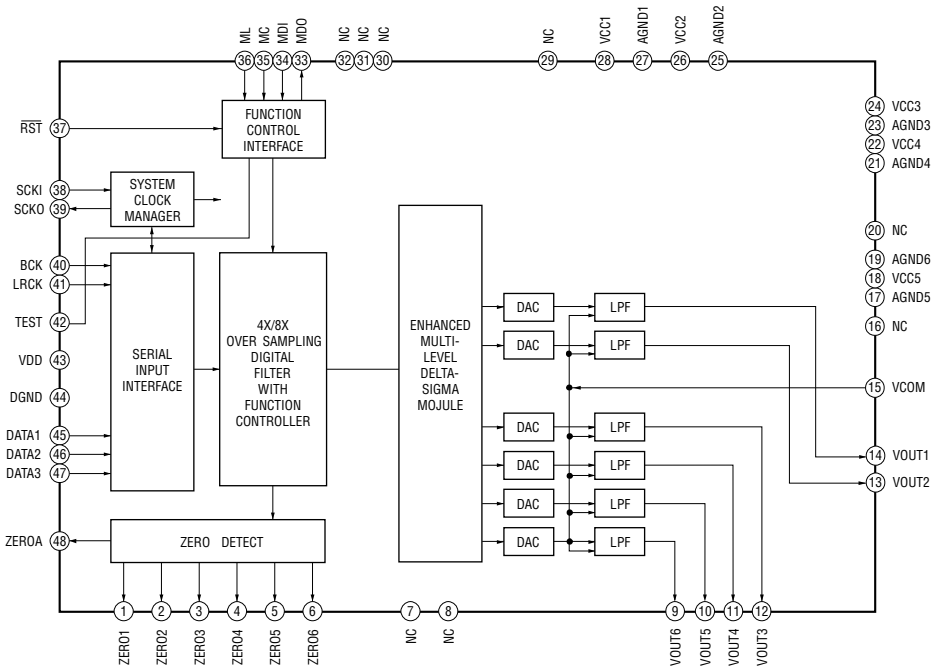
IC1301 LC89056W-E (DIGITAL BOARD (1/4))



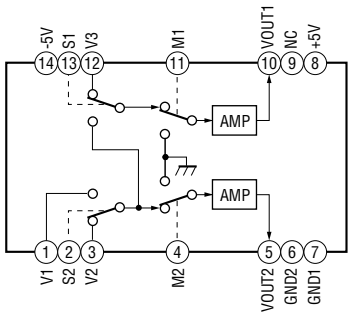
IC1401 PCM1803DBR (DIGITAL BOARD (2/4))



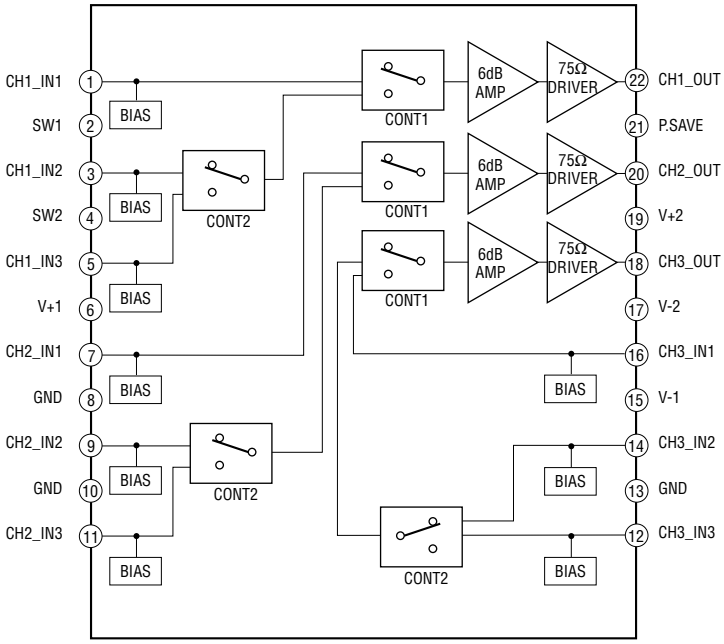
IC1452 PCM1602APT (DIGITAL BOARD (2/4))



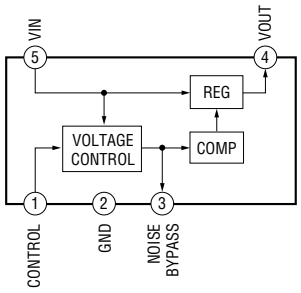
IC203 NJM2279D (VIDEO BOARD)



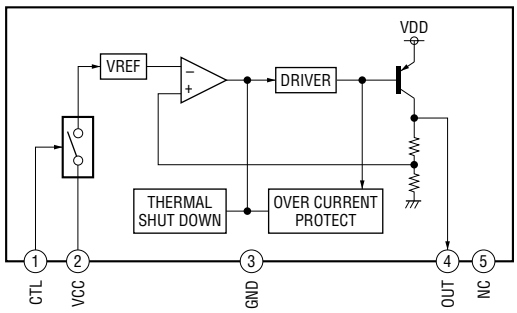
IC251 NJM2586AL (VIDEO BOARD)



IC5002 TK11150CSCL-G (HDMI SW BOARD)



IC5006 BA00BC0WFP-E2 (HDMI SW BOARD)



• IC Pin Descriptions

IC1905 CXD9862R (DSP) (DIGITAL BOARD (3/4))

Pin No.	Pin Name	I/O	Pin Description
1	VSS	—	Ground
2	XRST	I	Reset signal input from SYSTEM CONTROL IC
3	EXTIN	I	Not used (Connect to ground)
4	LRCKI3	I	Not used (Connect to ground)
5	VDDI	I	Power supply pin (+1.9 V)
6	BCKI3	I	Not used (Connect to ground)
7	PLOCK	O	Not used (Open)
8	VSS	—	Ground
9	MCLK1	I	Clock signal input (13.9 MHz)
10	VDDI	I	Power supply pin (+1.9 V)
11	VSS	—	Ground
12	MCLK2	O	Clock signal output (13.9 MHz)
13	MS	I	Not used (Fixed at L)
14	SCKOUT	O	Internal system clock signal output for 6CH DAC IC
15	LRCKI1	I	Sampling clock signal input from ADC IC
16	VDDE	I	Power supply pin (+3.4 V)
17	BCKI1	I	Bit clock signal input from ADC IC
18	SDI1	I	Audio IF data input from ADC IC
19	LRCKO	O	Sampling clock signal output for 6CH DAC IC
20	BCKO	O	Bit clock signal output for 6CH DAC IC
21	VSS	—	Ground
22	KFSIO	I/O	Audio clock signal (384fs/256fs) input/output for DIR IC
23 to 25	SDO1 to SDO3	O	Digital audio serial data output for 6CH DAC IC
26	SDO4	O	Not used (Open)
27	SPDIF	O	Not used (Open)
28	LRCKI2	I	Sampling clock signal input from ADC IC
29	BCKI2	I	Bit clock signal input from ADC IC
30	SDI2	I	Digital audio serial data input from DIR IC
31	VSS	—	Ground
32	HACN	O	Acknowledge signal output for SYSTEM CONTROL IC
33	HDIN	I	Serial data input from SYSTEM CONTROL IC
34	HCLK	I	Clock signal input from SYSTEM CONTROL IC
35	HDOUT	O	Serial data output for SYSTEM CONTROL IC
36	HCS	I	Chip select signal input from SYSTEM CONTROL IC
37	GP12	I	GP12 signal input from SYSTEM CONTROL IC
38, 39	GP13, GP14	O	Not used (Open)
40	VDDI	I	Power supply pin (+1.9 V)
41	VSS	—	Ground
42	GP15	O	Not used (Open)
43	OE0	O	SDRAM output enable signal output for D/A converter IC (SDRAM)
44	CS0	O	External memory chip select signal output for D/A converter IC (SDRAM)
45	WE0	O	SDRAM write enable signal output for D/A converter IC (SDRAM)
46	VDDE	I	Power supply pin (+3.4 V)
47	WMD1	I	Not used (Fixed at H)
48	VSS	—	Ground
49	WMD0	I	Not used (Fixed at H)
50	PAGE2	O	Not used (Open)
51	VSS	—	Ground
52, 53	PAGE1, PAGE0	O	Not used (Open)
54	BOOT	I	Not used (Connect to ground)
55	TST1	O	Not used (Open)

Pin No.	Pin Name	I/O	Pin Description
56	BST	I	Boot stop signal input from SYSTEM CONTROL IC
57	MOD1	I	Operation mode signal input (L: 386fs, H: 256fs) (Fixed at H)
58	MOD0	I	Operation mode signal input (L: single chip mode, H: use prohibited) (Fixed at L)
59	EXLOCK	I	Error detection signal input from DIR IC
60	VDDI	I	Power supply pin (+1.9 V)
61	VSS	—	Ground
62, 63	A17, A16	O	Not used (Open)
64 to 66	A15 to A13	O	External memory address signal output for D/A converter IC (SDRAM)
67	GP10	O	Not used (Open)
68	GP9	O	GP9 signal output for SYSTEM CONTROL IC
69	GP8	I	Audio signal input from DIR IC
70	VDDI	I	Power supply pin (+1.9 V)
71	VSS	—	Ground
72 to 75	D15/GP7 to D12/GP4	I/O	External memory data input/output for D/A converter IC (general port)
76	VDDE	I	Power supply pin (+3.4 V)
77 to 80	D11/GP3 to D8/GP0	I/O	External memory data input/output for D/A converter IC (general port)
81	VSS	—	Ground
82	A9	O	External memory address signal output for D/A converter IC (SDRAM)
83 to 85	A12 to A10	O	External memory address signal output for D/A converter IC (SDRAM)
86	TDO	O	Not used (Fixed at H)
87	TMS	I	Not used (Fixed at H)
88	XTRST	I	Not used (Fixed at H)
89	TCK	I	Not used (Fixed at H)
90	TDI	I	Not used (Fixed at H)
91	VSS	—	Ground
92 to 97	A8 to A3	O	External memory address signal output for D/A converter IC (SDRAM)
98, 99	D7, D6	I/O	External memory data input/output for D/A converter IC (SDRAM)
100	VDDI	I	Power supply pin (+1.9 V)
101	VSS	—	Ground
102 to 105	D5 to D2	I/O	External memory data input/output for D/A converter IC (SDRAM)
106	VDDE	I	Power supply pin (+3.4 V)
107, 108	D1, D0	I/O	External memory data input/output for D/A converter IC (SDRAM)
109, 110	A2, A1	O	External memory address signal output for D/A converter IC (SDRAM)
111	VSS	—	Ground
112	A0	O	External memory address signal output for D/A converter IC (SDRAM)
113	PM	I	PLL initialization signal input from SYSTEM CONTROL IC
114, 115	SDI3, SDI4	I	Not used (Open)
116	SYNC	I	Sync/async select signal input (L: sync, H: async) (Fixed at H)
117	TST2	I	Not used (Connect to ground)
118	GP11	I	Not used (Connect to ground)
119	TST3	I	Not used (Connect to ground)
120	VDDI	I	Power supply pin (+1.9 V)

IC1101 MB90F045PF-G-9033-SPE1 (SYSTEM CONTROL) (DIGITAL BOARD (4/4))

Pin No.	Pin Name	I/O	Pin Description
1	DATAO	I	Serial data line signal input from DIR IC
2	GP9	I	GP9 signal input from DSP IC
3	BST	O	Boot stop control signal output for DSP IC
4	HCS	O	Chip select signal output for DSP IC
5	HACN	I	Acknowledge signal input from DSP IC
6	XRST	O	Reset signal output for DSP IC
7	PM	O	PLL control signal output for DSP IC
8	GP12	O	GP12 signal output for DSP IC
9	FL_LAT	O	Latch signal output for FL driver IC
10	PCM1602/1803_RST	O	Reset signal output for 6CH DAC IC/ADC IC
11	VSS	—	Ground
12	PCM1602_ML	O	Serial latch signal output for 6CH DAC IC
13	PCM1602_MC	O	Serial clock signal output for 6CH DAC IC
14	PCM1602_MDI	O	Serial data output for 6CH DAC IC
15	PCM1602_MDO	I	Serial data input from 6CH DAC IC
16	FL_CLK	O	Clock signal output for FL driver IC
17	FL_DATA	O	Serial data output for FL driver IC
18	HDOUT	I	Serial data input from DSP IC
19	HDIN	O	Serial data output for DSP IC
20	HCLK	O	Serial data clock signal output for DSP IC
21	TUNING_A	I	TUNING +/– encoder (A) signal input (Not used in this set)
22	TUNING_B	I	TUNING +/– encoder (B) signal input (Not used in this set)
23	VCC5	—	Power supply pin (+3.3 V)
24	V_SW1	O	Video SW1 signal output for INPUT SELECT IC
25	V_SW2	O	Video SW2 signal output for INPUT SELECT IC
26	C LINK_DET	I	C Link detect signal input (Not used in this set)
27	FLASH2/ C LINK_RX(MICLO)	O	Flash programming signal output 2
28	FLASH1/ C LINK_TX(MOCLI)	O	Flash programming signal output 1
29	SDA	I/O	Serial data input/output for EEPROM IC
30	SCL	O	Clock signal output for EEPROM IC
31	ENC_A	I	INPUT SELECTOR encoder (A) signal input
32	ENC_B	I	INPUT SELECTOR encoder (B) signal input
33, 34	NC	O	Not used (Open)
35	AVCC	—	Power supply pin (+3.3 V)
36	AVRH	—	Power supply pin (+3.3 V)
37	AVSS	—	Ground
38	ADCC	I	AUTO CAL MIC analog signal input
39, 40	A/D1, A/D2	I	Key signal input (A/D port)
41	VERSION	I	Destination detection signal input (L: US, Canadian model, H: AEP, UK model)
42	VSS	—	Ground
43	RDS_SIG	I	RDS signal level input (AEP, UK model)
44	MODEL	I	Model detection signal input
45	VACS CTRL	I	VACS control signal input (Not used in this set)
46	TUNER_CLK	O	Serial clock signal output for tuner pack
47	TUNER_DATA	O	Serial data output for tuner pack
48	STOP	I	AC off detection signal input
49	MOD0	—	Selection of micon operation mode
50	MOD1	—	Not used (Connect to AVCC)
51	MOD2	—	Selection of micon operation mode
52	RDS_CLK	I	RDS data clock signal input (AEP, UK model)

Pin No.	Pin Name	I/O	Pin Description
53	RDS_DATA	I	RDS data input (AEP, UK model)
54	SIRCS	I	SIRCS signal input
55	HP_DETECT	I	Headphones detection signal input
56	POWER_KEY	I	Power key detection signal input
57	ADCC_INT	I	ADCC data input from DSP IC
58	POWER_RY	O	Power relay driver control signal output
59	VOL IC_CL	O	Clock signal output for DIR IC
60	VOL IC_DA	O	Serial data and latch output for DIR IC
61	PROTECTOR	I	Protector detection signal input
62	HP_RY	O	Headphone relay driver control signal output
63	FUSE_DETECT	I	Fuse open detection signal input
64	VOL_ENCODER(B)	I	MASTER VOLUME encoder (B) signal input
65	VOL_ENCODER(A)	I	MASTER VOLUME encoder (A) signal input
66	FRONT_B_RY	O	Front B speaker relay driver control signal output
67	FRONT_A_RY	O	Front A speaker relay driver control signal output
68	DC-CONTROL	O	DCAC DC-BIAS switch control signal output (Not used in this set)
69	C/REAR/SB_RY	O	Center/surround speaker relay driver control signal output
70	SW_RY	O	Sub woofer relay driver control signal output
71	NC	O	Not used (Open)
72	BRIDGEABLE_RY	O	Bridgeable relay driver control signal output (Not used in this set)
73	DO/SD/ST	I	Tuner serial data input
74	SLATCH	O	Tuner latch signal output
75	V_SW3	O	Video SW3 signal output for INPUT SELECT IC (Not used in this set)
76	V_SW4	O	Video SW4 signal output for INPUT SELECT IC (Not used in this set)
77	RSTX	I	Reset signal input
78	COMP MUTE	O	COMPONENT VIDEO mute signal output
79	X1A	—	Not used (Open)
80	X0A	—	Not used (Connect to VSS)
81	VSS	—	Ground
82	X0	—	Clock signal input (24 MHz)
83	X1	—	Clock signal output (24 MHz)
84	VCC3	—	Power supply pin (+3.3 V)
85	HDMI_S2	O	HDMI S2 signal output (Not used in this set)
86	HDMI_S1	O	HDMI S1 signal output
87	HDMI_OEB	O	HDMI OEB signal output
88	HDMI_PRE	O	HDMI PRE signal output
89	HDMI_CTRL	O	HDMI control signal output
90	COMP_S2	O	COMPONENT VIDEO assign SW2 signal output
91	COMP_S1	O	COMPONENT VIDEO assign SW1 signal output
92	BST_SEL	O	96/24 signal output for DSP IC
93	XMODE	O	Xmode signal output for DIR IC
94	CKSEL1	O	Clock select signal output for DIR IC
95	CLK	O	Data clock signal output for DIR IC
96	CE	O	Latch signal output for DIR IC
97	DI	O	Data output for DIR IC
98	DO	I	Data input from DIR IC
99	ERROR	I	Error detection signal input from DIR IC
100	XSTATE	I	Xstate signal input from DIR IC

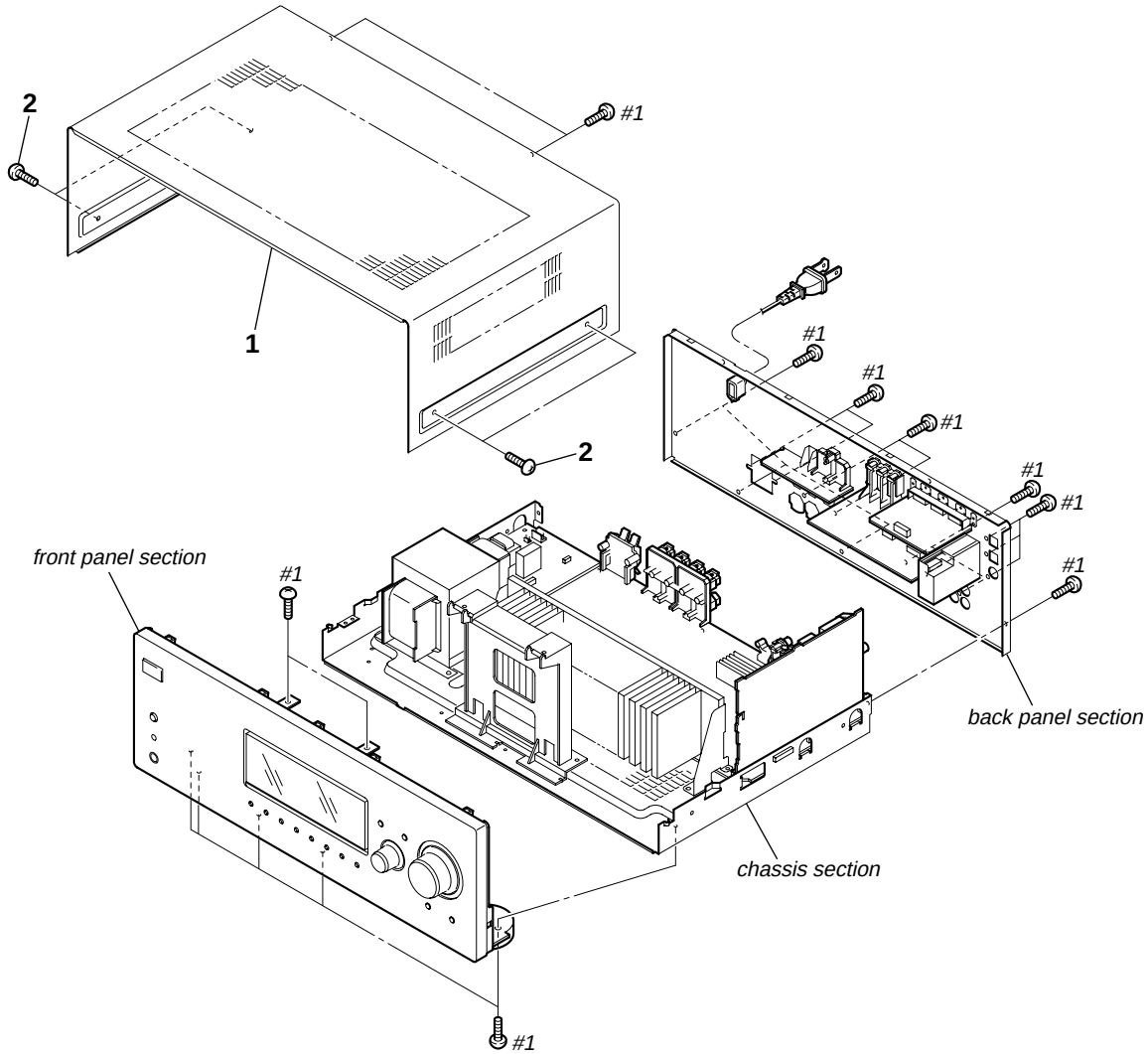
SECTION 6
EXPLODED VIEWS

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Abbreviation
  CND : Canadian model
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE) ... (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Accessories are given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

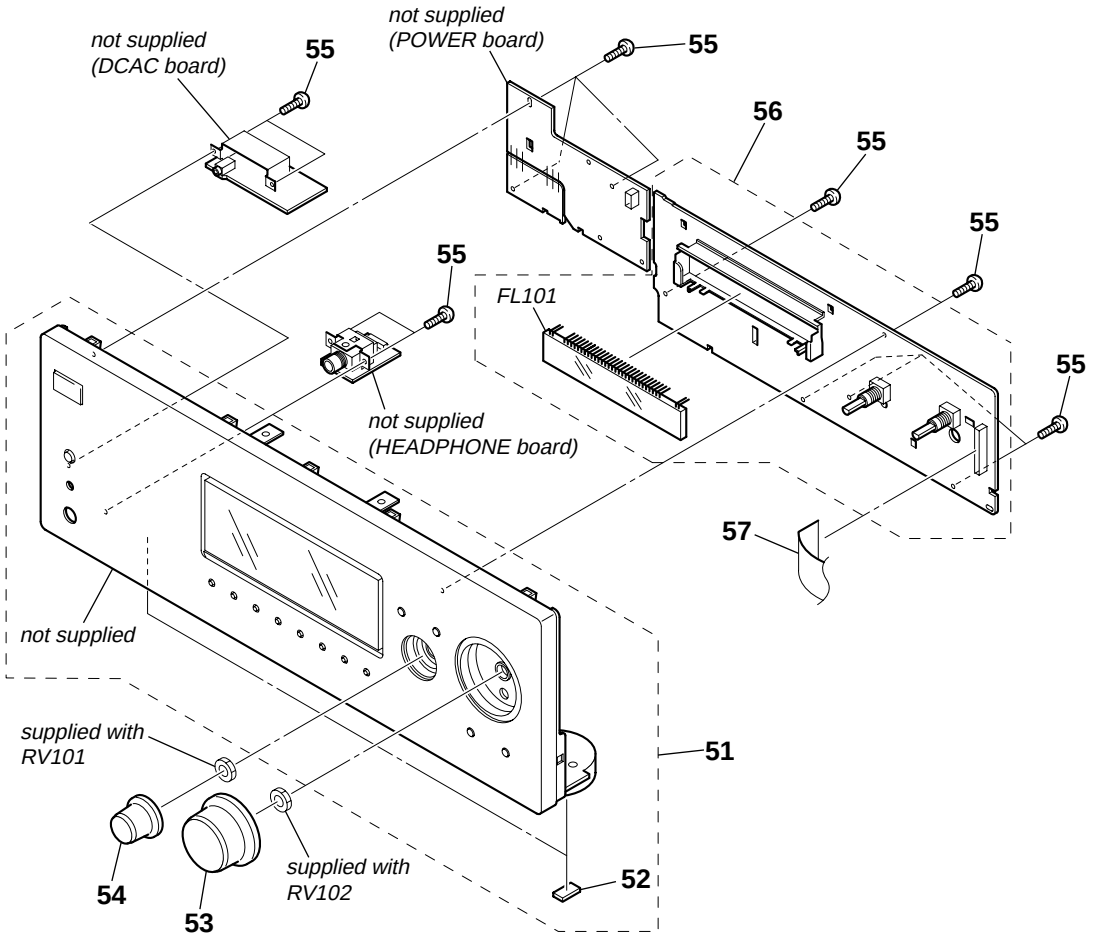
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

6-1. CASE SECTION



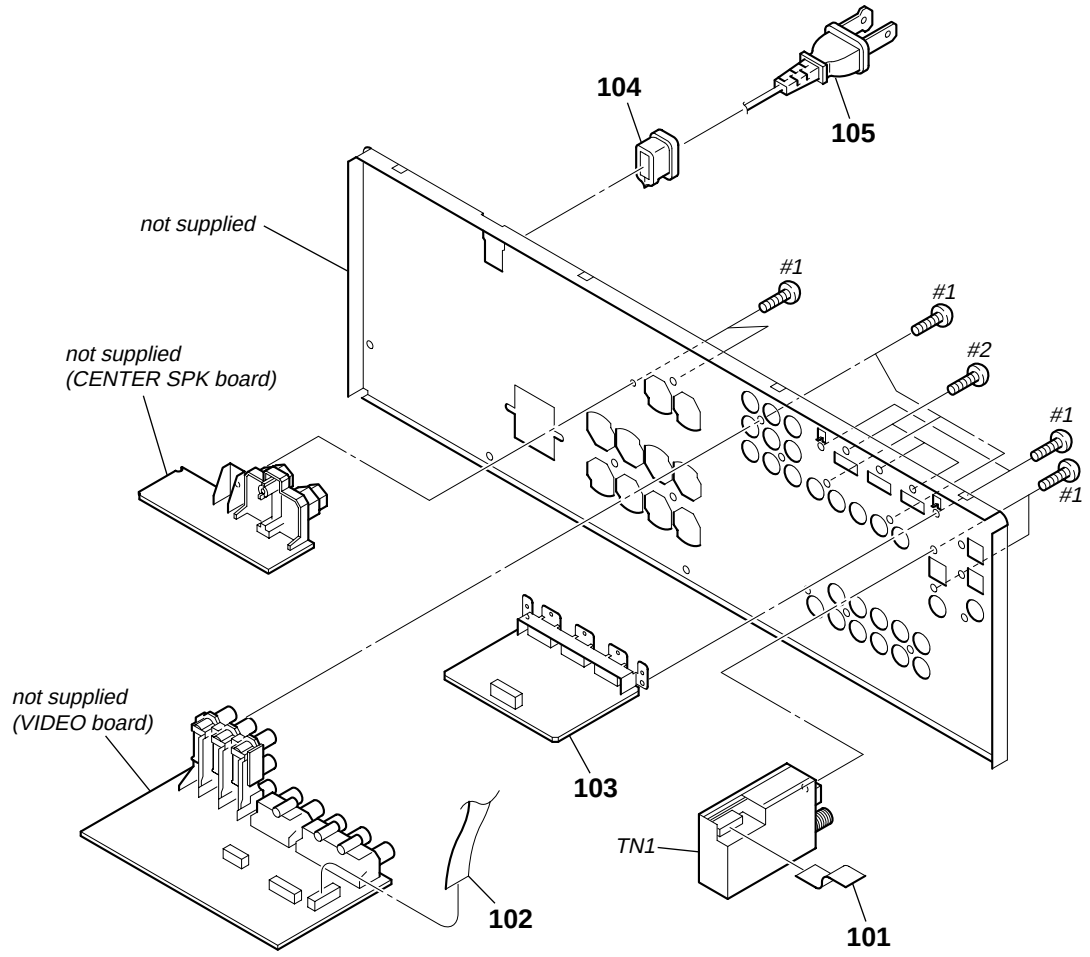
Ref. No.	Part No.	Description	Remark
1	2-661-145-11	CASE (BLACK)...(BLACK)	
1	2-661-145-31	CASE (SILVER)...(SILVER)	
2	3-363-099-02	SCREW (CASE 3 TP2) (BLACK)...(BLACK)	
2	3-363-099-11	SCREW (CASE 3 TP2) (SILVER)...(SILVER)	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
#2	7-685-871-01	SCREW +BVTT 3X6 (S)	

6-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	X-2159-962-1	FRONT PANEL ASSY (BLACK)...(BLACK) (US)	
51	X-2159-963-1	FRONT PANEL ASSY (BLACK)...(BLACK) (CND)	
51	X-2159-964-1	FRONT PANEL ASSY (BLACK)...(BLACK)	(AEP,UK)
51	X-2176-137-1	FRONT PANEL ASSY (SILVER)...(SILVER)	(AEP,UK)
52	4-977-358-01	CUSHION	
53	2-661-142-01	KNOB (VOLUME) (BLACK)...(BLACK)	
53	2-661-142-11	KNOB (VOLUME) (SILVER)...(SILVER)	
54	2-661-141-01	KNOB (MENU) (BLACK)...(BLACK)	
54	2-661-141-11	KNOB (MENU) (SILVER)...(SILVER)	
55	3-087-053-01	+BVTP 2.6 (3CR)	
56	A-1221-600-A	DISPLAY BOARD, COMPLETE (US,CND)	
56	A-1221-612-A	DISPLAY BOARD, COMPLETE (AEP,UK)	
57	1-832-060-11	CABLE, FLEXIBLE FLAT (25 CORE)	
FL101	1-519-927-11	VACUUM FLUORESCENT DISPLAY	

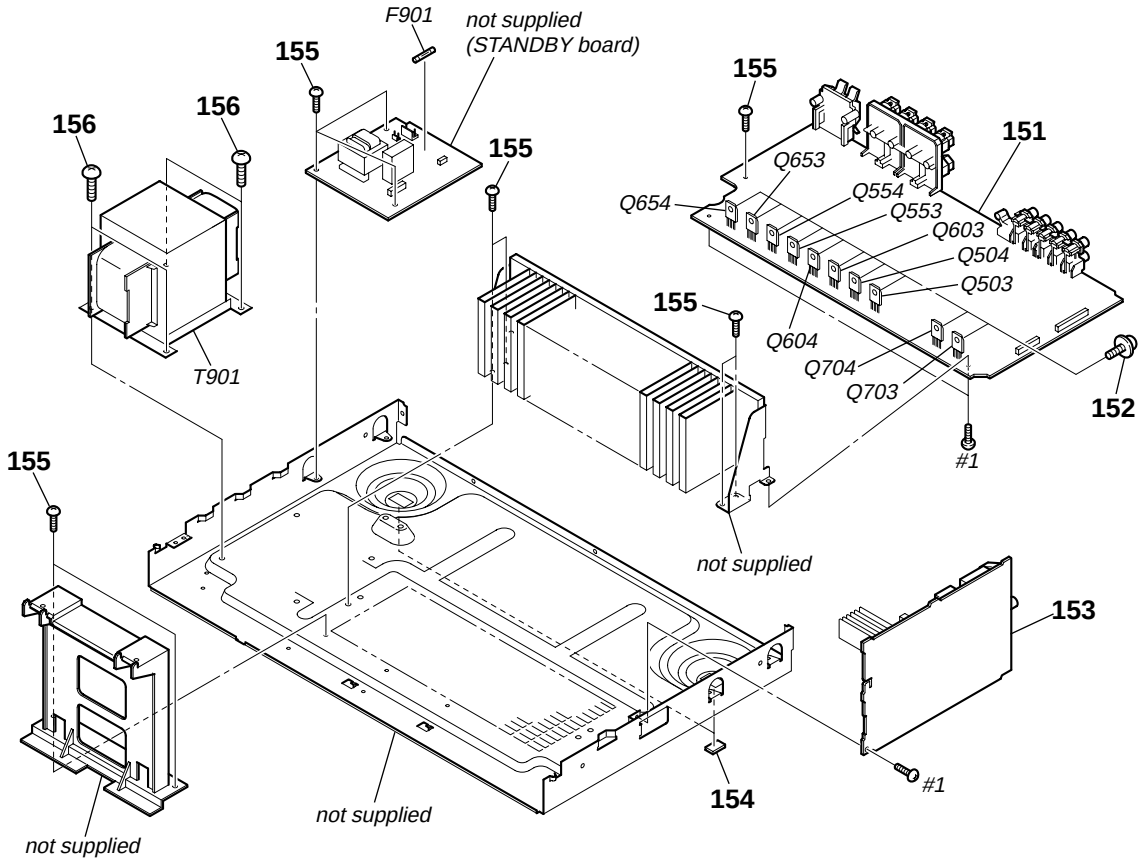
6-3. BACK PANEL SECTION



Ref. No.	Part No.	Description	Remark
101	1-828-953-11	WIRE (FLAT TYPE) (9 CORE) (US,CND)	
101	1-828-963-11	WIRE (FLAT TYPE) (11 CORE) (AEP,UK)	
102	1-828-971-11	WIRE (FLAT TYPE) (13 CORE)	
103	A-1158-394-A	HDMI SW BOARD, COMPLETE	
* 104	3-703-244-00	BUSHING (2104), CORD	
⚠105	1-777-071-83	CORD, POWER (AEP,UK)	

Ref. No.	Part No.	Description	Remark
⚠105	1-783-820-11	CORD, POWER (US,CND)	
TN1	1-693-728-11	TUNER (FM/AM) (ANTENNA) (US,CND)	
TN1	1-693-737-11	TUNER (FM/AM) (ANTENNA) (AEP,UK)	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
#2	7-685-871-01	SCREW +BVTT 3X6 (S)	

6-4. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark
151	A-1221-595-A	MAIN BOARD, COMPLETE (US,CND)	
151	A-1221-608-A	MAIN BOARD, COMPLETE (AEP,UK)	
152	3-905-609-01	SCREW (TRANSISTOR)	
153	A-1221-603-A	DIGITAL BOARD, COMPLETE (US,CND)	
153	A-1221-613-A	DIGITAL BOARD, COMPLETE (AEP,UK)	
154	4-977-358-01	CUSHION	
155	3-077-331-21	+BV 3 (3-CR)	
156	4-249-675-01	+BV SUMITITE S 4X6 ROUND	
⚠F901	1-532-464-33	FUSE (T2.5AL/250V) (AEP,UK)	
⚠F901	1-533-454-12	FUSE, GLASS TUBE (DIA. 5) (6.3A/125V) (US,CND)	
Q503	6-702-390-01	TRANSISTOR MN2488-OPY-MK	
Q504	6-702-391-01	TRANSISTOR MP1620-OPY-MK	
Q553	6-702-390-01	TRANSISTOR MN2488-OPY-MK	
Q554	6-702-391-01	TRANSISTOR MP1620-OPY-MK	
Q603	6-702-390-01	TRANSISTOR MN2488-OPY-MK	
Q604	6-702-391-01	TRANSISTOR MP1620-OPY-MK	
Q653	6-702-390-01	TRANSISTOR MN2488-OPY-MK	
Q654	6-702-391-01	TRANSISTOR MP1620-OPY-MK	
Q703	6-702-390-01	TRANSISTOR MN2488-OPY-MK	
Q704	6-702-391-01	TRANSISTOR MP1620-OPY-MK	
⚠T901	1-439-550-21	TRANSFORMER, POWER (MAIN) (AEP,UK)	
⚠T901	1-439-583-11	TRANSFORMER, POWER (MAIN) (US,CND)	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	

SECTION 7
ELECTRICAL PARTS LIST

CENTER SPK | DCAC | DIGITAL

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : µ, for example:
  uA.. : µA.. uPA.. : µPA..
  uPB.. : µPB.. uPC.. : µPC.. uPD.. : µPD..
- CAPACITORS
  uF : µF
- COILS
  uH : µH
- Abbreviation
  CND : Canadian model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
		CENTER SPK BOARD			
		**********			
		< CONNECTOR >			
CNP721	1-564-320-00	PIN, CONNECTOR (3.96mm PITCH) 2P			
		< TERMINAL BOARD >			
TM607	1-780-450-11	BANANA-PUSH TERMINAL BOARD (2P) (SPEAKERS CENTER) (AEP,UK)			
TM607	1-780-500-11	BANANA-PUSH TERMINAL BOARD (2P) (SPEAKERS CENTER) (US,CND)			
**********					
		DCAC BOARD			
		**********			
		< CAPACITOR >			
C2001	1-162-282-31	CERAMIC	100PF	10%	50V
C2002	1-126-160-11	ELECT	1uF	20%	50V
C2003	1-127-882-31	CERAMIC	0.033uF	10%	50V
C2005	1-128-803-11	CERAMIC	33PF	5%	50V
C2006	1-126-160-11	ELECT	1uF	20%	50V
C2008	1-128-806-11	CERAMIC	56PF	5%	50V
C2010	1-127-882-31	CERAMIC	0.033uF	10%	50V
C2011	1-127-880-11	CERAMIC	0.022uF	10%	50V
C2012	1-127-880-11	CERAMIC	0.022uF	10%	50V
C2013	1-126-160-11	ELECT	1uF	20%	50V
C2014	1-124-465-00	ELECT	0.47uF	20%	50V
C2018	1-127-888-11	CERAMIC	0.1uF	10%	50V
		< DIODE >			
D2013	8-719-991-33	DIODE 1SS133T-77			
D2014	8-719-991-33	DIODE 1SS133T-77			
		< IC >			
IC2000	8-759-167-88	IC NJM4565D			
		< JACK >			
J2000	1-820-056-11	SMALL TYPE JACK (AUTO CAL MIC)			
		< RESISTOR >			
R2000	1-247-831-11	CARBON	1K	5%	1/4W
R2001	1-249-429-11	CARBON	10K	5%	1/4W
R2003	1-249-429-11	CARBON	10K	5%	1/4W
R2005	1-247-903-00	CARBON	1M	5%	1/4W
R2006	1-247-831-11	CARBON	1K	5%	1/4W
R2007	1-249-429-11	CARBON	10K	5%	1/4W
R2008	1-247-897-11	CARBON	560K	5%	1/4W
R2010	1-249-429-11	CARBON	10K	5%	1/4W
R2015	1-249-435-11	CARBON	33K	5%	1/4W
R2016	1-249-431-11	CARBON	15K	5%	1/4W
R2017	1-249-421-11	CARBON	2.2K	5%	1/4W
R2018	1-249-418-11	CARBON	1.2K	5%	1/4W
R2019	1-249-421-11	CARBON	2.2K	5%	1/4W
**********					
	A-1221-603-A	DIGITAL BOARD, COMPLETE (US,CND)			
	A-1221-613-A	DIGITAL BOARD, COMPLETE (AEP,UK)			
		**********			
		< CAPACITOR >			
C1001	1-126-925-11	ELECT	470uF	20%	10V
C1002	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C1004	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1005	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1019	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1021	1-137-980-11	CERAMIC CHIP	0.47uF	10%	50V
C1022	1-135-372-31	ELECT	470uF	20%	10V
C1031	1-137-980-11	CERAMIC CHIP	0.47uF	10%	50V
C1032	1-135-372-31	ELECT	470uF	20%	10V
C1067	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C1068	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C1100	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1102	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1103	1-126-947-11	ELECT	47uF	20%	35V
C1107	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1108	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1118	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1119	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1120	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1121	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1122	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1123	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1124	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1129	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1131	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1132	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1137	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1138	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1139	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V

DIGITAL

Ref. No.	Part No.	Description			Remark
C1140	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1142	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1144	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1145	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1149	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C1171	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1172	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1253	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C1254	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C1255	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C1299	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1301	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1302	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1303	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1304	1-107-726-11	CERAMIC CHIP	0.01uF	10%	16V
C1305	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1306	1-126-947-11	ELECT	47uF	20%	35V
C1308	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1309	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C1310	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C1312	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1313	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1314	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1315	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1351	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1354	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1355	1-104-662-11	ELECT	22uF	20%	25V
C1358	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1359	1-126-916-11	ELECT	1000uF	20%	6.3V
C1361	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1362	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1401	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1402	1-126-947-11	ELECT	47uF	20%	35V
C1403	1-126-964-11	ELECT	10uF	20%	50V
C1404	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1405	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1406	1-126-964-11	ELECT	10uF	20%	50V
C1407	1-126-964-11	ELECT	10uF	20%	50V
C1408	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1409	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1411	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C1413	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C1414	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1415	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1418	1-126-964-11	ELECT	10uF	20%	50V
C1422	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C1423	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C1428	1-126-964-11	ELECT	10uF	20%	50V
C1432	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C1433	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C1438	1-126-964-11	ELECT	10uF	20%	50V
C1441	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C1442	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C1448	1-126-964-11	ELECT	10uF	20%	50V
C1450	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1451	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C1453	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C1454	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V

Ref. No.	Part No.	Description			Remark
C1455	1-126-964-11	ELECT	10uF	20%	50V
C1457	1-126-964-11	ELECT	10uF	20%	50V
C1458	1-126-964-11	ELECT	10uF	20%	50V
C1462	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C1463	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C1468	1-126-964-11	ELECT	10uF	20%	50V
C1473	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C1474	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C1481	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C1483	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C1487	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C1491	1-126-964-11	ELECT	10uF	20%	50V
C1494	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1495	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C1501	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1502	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1503	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1504	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1505	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1506	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1507	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1508	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1509	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1510	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1511	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1513	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1514	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1515	1-126-925-11	ELECT	470uF	20%	10V
C1516	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1517	1-126-925-11	ELECT	470uF	20%	10V
C1518	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1519	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1520	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1521	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C1522	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C1525	1-126-925-11	ELECT	470uF	20%	10V
C1547	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C1566	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C1567	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C1568	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C1569	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C1604	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1605	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1620	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1905	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1906	1-126-925-11	ELECT	470uF	20%	10V
C1908	1-126-925-11	ELECT	470uF	20%	10V
C1913	1-137-980-11	CERAMIC CHIP	0.47uF	10%	50V
C1914	1-126-947-11	ELECT	47uF	20%	35V

< CONNECTOR >

CNP503	1-691-770-11	PLUG (MICRO CONNECTOR) 8P	
* CNP505	1-564-510-11	PLUG, CONNECTOR 7P	
CNS501	1-573-829-11	CONNECTOR, BOARD TO BOARD 15P	
CNS502	1-573-825-11	CONNECTOR, BOARD TO BOARD 11P	
CNS504	1-784-731-11	CONNECTOR, FFC 9P	
CNS507	1-568-828-11	CONNECTOR, FFC 9P (US,CND)	
CNS508	1-568-830-11	CONNECTOR, FFC 11P (AEP,UK)	

Ref. No.	Part No.	Description	Remark
CNS509	1-784-774-11	CONNECTOR, FFC 13P	
CNS513	1-784-778-11	CONNECTOR, FFC 17P	
		< DIODE >	
D1001	8-719-053-18	DIODE 1SR154-400TE-25	
D1003	8-719-049-09	DIODE 1SS367-T3SONY	
D1004	8-719-049-09	DIODE 1SS367-T3SONY	
D1107	8-719-404-50	DIODE MA111-TX	
D1108	8-719-404-50	DIODE MA111-TX	
D1109	8-719-404-50	DIODE MA111-TX	
D1110	8-719-404-50	DIODE MA111-TX	
D1111	8-719-404-50	DIODE MA111-TX	
D1301	8-719-404-50	DIODE MA111-TX	
D1302	8-719-404-50	DIODE MA111-TX	
D1501	8-719-049-09	DIODE 1SS367-T3SONY	
D1502	8-719-049-09	DIODE 1SS367-T3SONY	
D1503	8-719-049-09	DIODE 1SS367-T3SONY	
		< FERRITE BEAD >	
FB1101	1-400-862-11	BEAD, FERRITE	
FB1302	1-400-862-11	BEAD, FERRITE	
FB1305	1-400-862-11	BEAD, FERRITE	
FB1308	1-400-862-11	BEAD, FERRITE	
FB1310	1-400-862-11	BEAD, FERRITE	
FB1350	1-400-862-11	BEAD, FERRITE	
FB1403	1-400-862-11	BEAD, FERRITE	
FB1405	1-400-862-11	BEAD, FERRITE	
FB1452	1-400-862-11	BEAD, FERRITE	
FB1453	1-400-862-11	BEAD, FERRITE	
FB1501	1-400-862-11	BEAD, FERRITE	
FB1502	1-400-862-11	BEAD, FERRITE	
FB1503	1-400-862-11	BEAD, FERRITE	
		< IC >	
IC1001	8-759-231-53	IC TA7805S	
IC1031	6-705-469-01	IC BA50BC0FP-E2	
IC1101	6-807-154-01	IC MB90F045PF-G-9033-SPE1	
IC1111	6-702-913-01	IC S-80929CNMC-G8ZT2G	
IC1131	6-705-866-01	IC BR24L16FJ-WE2	
IC1301	8-759-825-15	IC LC89056W-E	
IC1303	8-759-096-87	IC TC7WU04FU(TE12R)	
IC1351	6-600-466-01	IC TORX147L(SONY) (DIGITAL VIDEO 2/BD IN (OPTICAL))	
IC1354	6-600-466-01	IC TORX147L(SONY) (DIGITAL SAT IN (OPTICAL))	
IC1401	6-707-608-01	IC PCM1803DBR	
IC1403	8-759-710-97	IC NJM4565M-D	
IC1404	8-759-710-97	IC NJM4565M-D	
IC1405	8-759-710-97	IC NJM4565M-D	
IC1452	6-708-784-01	IC PCM1602APT	
IC1502	6-709-278-01	IC IS61WV6416BLL-12TLI	
IC1503	8-759-546-74	IC TC7WH157FU(TE12R)	
IC1901	6-707-168-01	IC SI-3008KWFE	
IC1902	8-759-701-59	IC NJM78M09FA	
IC1904	6-705-468-01	IC BA33BC0FP-E2	
IC1905	6-707-754-01	IC CXD9862R	

Ref. No.	Part No.	Description			Remark
		< JACK >			
J1301	1-793-446-21	JACK, PIN 1P (DIGITAL DVD IN (COAXIAL))			
		< JUMPER RESISTOR >			
JR1002	1-211-950-11	SHORT CHIP	0		
JR1005	1-216-864-11	SHORT CHIP	0		
JR1008	1-216-864-11	SHORT CHIP	0		
JR1020	1-216-864-11	SHORT CHIP	0		
JR1511	1-400-862-11	BEAD, FERRITE			
		< RESISTOR >			
R1010	1-216-809-11	METAL CHIP	100	5%	1/10W
R1011	1-216-809-11	METAL CHIP	100	5%	1/10W
R1012	1-216-809-11	METAL CHIP	100	5%	1/10W
R1013	1-216-809-11	METAL CHIP	100	5%	1/10W
R1014	1-216-809-11	METAL CHIP	100	5%	1/10W
R1015	1-216-809-11	METAL CHIP	100	5%	1/10W
R1035	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1039	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1041	1-216-809-11	METAL CHIP	100	5%	1/10W
R1042	1-216-809-11	METAL CHIP	100	5%	1/10W
R1049	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1058	1-216-813-11	METAL CHIP	220	5%	1/10W (AEP,UK)
R1059	1-216-813-11	METAL CHIP	220	5%	1/10W (AEP,UK)
R1061	1-216-809-11	METAL CHIP	100	5%	1/10W
R1062	1-216-809-11	METAL CHIP	100	5%	1/10W
R1065	1-216-809-11	METAL CHIP	100	5%	1/10W
R1066	1-216-809-11	METAL CHIP	100	5%	1/10W
R1067	1-216-809-11	METAL CHIP	100	5%	1/10W
R1068	1-216-809-11	METAL CHIP	100	5%	1/10W
R1072	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1073	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1076	1-216-809-11	METAL CHIP	100	5%	1/10W
R1077	1-216-809-11	METAL CHIP	100	5%	1/10W
R1078	1-216-809-11	METAL CHIP	100	5%	1/10W
R1083	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1088	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1094	1-216-833-11	METAL CHIP	10K	5%	1/10W (US,CND)
R1095	1-216-833-11	METAL CHIP	10K	5%	1/10W (US,CND)
R1096	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1105	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1106	1-216-809-11	METAL CHIP	100	5%	1/10W
R1107	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1108	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1110	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1111	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1112	1-216-809-11	METAL CHIP	100	5%	1/10W
R1114	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1117	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1118	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1120	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1121	1-216-809-11	METAL CHIP	100	5%	1/10W
R1122	1-216-809-11	METAL CHIP	100	5%	1/10W
R1123	1-216-809-11	METAL CHIP	100	5%	1/10W

DIGITAL

Ref. No.	Part No.	Description			Remark
R1124	1-216-809-11	METAL CHIP	100	5%	1/10W
R1125	1-216-809-11	METAL CHIP	100	5%	1/10W
R1126	1-216-809-11	METAL CHIP	100	5%	1/10W
R1127	1-216-809-11	METAL CHIP	100	5%	1/10W
R1128	1-216-809-11	METAL CHIP	100	5%	1/10W
R1129	1-216-809-11	METAL CHIP	100	5%	1/10W
R1134	1-216-809-11	METAL CHIP	100	5%	1/10W
R1135	1-216-809-11	METAL CHIP	100	5%	1/10W
R1140	1-216-809-11	METAL CHIP	100	5%	1/10W
R1143	1-216-809-11	METAL CHIP	100	5%	1/10W
R1144	1-216-809-11	METAL CHIP	100	5%	1/10W
R1150	1-216-809-11	METAL CHIP	100	5%	1/10W
R1151	1-216-809-11	METAL CHIP	100	5%	1/10W
R1152	1-216-809-11	METAL CHIP	100	5%	1/10W
R1153	1-216-809-11	METAL CHIP	100	5%	1/10W
R1154	1-216-809-11	METAL CHIP	100	5%	1/10W
R1156	1-216-864-11	SHORT CHIP	0		
R1157	1-216-864-11	SHORT CHIP	0		
R1159	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1160	1-216-809-11	METAL CHIP	100	5%	1/10W
R1161	1-216-809-11	METAL CHIP	100	5%	1/10W
R1163	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1164	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1175	1-216-809-11	METAL CHIP	100	5%	1/10W
R1179	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1180	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1181	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1182	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1183	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1184	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1185	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1186	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1187	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1188	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1189	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1190	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1191	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1192	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1193	1-216-841-11	METAL CHIP	47K	5%	1/10W (AEP,UK)
R1194	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (AEP,UK)
R1194	1-216-864-11	SHORT CHIP	0 (US,CND)		
R1201	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1253	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1260	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1261	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1301	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1302	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1303	1-216-839-11	METAL CHIP	33K	5%	1/10W
R1304	1-216-809-11	METAL CHIP	100	5%	1/10W
R1305	1-216-819-11	METAL CHIP	680	5%	1/10W
R1306	1-216-801-11	METAL CHIP	22	5%	1/10W
R1307	1-216-809-11	METAL CHIP	100	5%	1/10W
R1308	1-216-809-11	METAL CHIP	100	5%	1/10W
R1309	1-216-809-11	METAL CHIP	100	5%	1/10W
R1310	1-216-857-11	METAL CHIP	1M	5%	1/10W
R1311	1-216-809-11	METAL CHIP	100	5%	1/10W

Ref. No.	Part No.	Description			Remark
R1312	1-216-809-11	METAL CHIP	100	5%	1/10W
R1313	1-216-809-11	METAL CHIP	100	5%	1/10W
R1314	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1318	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1319	1-216-864-11	SHORT CHIP	0		
R1321	1-216-864-11	SHORT CHIP	0		
R1323	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1325	1-216-864-11	SHORT CHIP	0		
R1351	1-216-809-11	METAL CHIP	100	5%	1/10W
R1354	1-216-809-11	METAL CHIP	100	5%	1/10W
R1355	1-218-285-11	METAL CHIP	75	5%	1/10W
R1356	1-216-817-11	METAL CHIP	470	5%	1/10W
R1357	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1359	1-216-809-11	METAL CHIP	100	5%	1/10W
R1360	1-216-809-11	METAL CHIP	100	5%	1/10W
R1401	1-216-809-11	METAL CHIP	100	5%	1/10W
R1407	1-216-809-11	METAL CHIP	100	5%	1/10W
R1409	1-216-864-11	SHORT CHIP	0		
R1410	1-216-817-11	METAL CHIP	470	5%	1/10W
R1411	1-216-817-11	METAL CHIP	470	5%	1/10W
R1414	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1420	1-216-864-11	SHORT CHIP	0		
R1421	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1424	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1425	1-216-864-11	SHORT CHIP	0		
R1426	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1434	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1435	1-216-864-11	SHORT CHIP	0		
R1436	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1444	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1445	1-216-864-11	SHORT CHIP	0		
R1446	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1454	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1455	1-216-864-11	SHORT CHIP	0		
R1460	1-216-864-11	SHORT CHIP	0		
R1461	1-216-864-11	SHORT CHIP	0		
R1463	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1464	1-216-864-11	SHORT CHIP	0		
R1466	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1469	1-216-809-11	METAL CHIP	100	5%	1/10W
R1470	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1471	1-216-864-11	SHORT CHIP	0		
R1472	1-216-864-11	SHORT CHIP	0		
R1473	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1474	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1475	1-216-864-11	SHORT CHIP	0		
R1476	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1483	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1484	1-216-864-11	SHORT CHIP	0		
R1486	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1490	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1491	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1492	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1493	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1494	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1495	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
R1501	1-216-809-11	METAL CHIP	100	5%	1/10W
R1502	1-216-809-11	METAL CHIP	100	5%	1/10W

Ref. No.	Part No.	Description			Remark
R1503	1-216-813-11	METAL CHIP	220	5%	1/10W
R1504	1-216-809-11	METAL CHIP	100	5%	1/10W
R1505	1-216-809-11	METAL CHIP	100	5%	1/10W
R1506	1-216-809-11	METAL CHIP	100	5%	1/10W
R1508	1-216-809-11	METAL CHIP	100	5%	1/10W
R1509	1-216-809-11	METAL CHIP	100	5%	1/10W
R1510	1-216-809-11	METAL CHIP	100	5%	1/10W
R1511	1-216-809-11	METAL CHIP	100	5%	1/10W
R1512	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1513	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1514	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1515	1-216-857-11	METAL CHIP	1M	5%	1/10W
R1523	1-216-813-11	METAL CHIP	220	5%	1/10W
R1524	1-216-864-11	SHORT CHIP	0		
R1530	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1541	1-216-813-11	METAL CHIP	220	5%	1/10W
R1555	1-216-813-11	METAL CHIP	220	5%	1/10W
R1556	1-216-809-11	METAL CHIP	100	5%	1/10W
R1557	1-216-813-11	METAL CHIP	220	5%	1/10W
R1570	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1571	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1572	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1573	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1574	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1635	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1636	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1943	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1947	1-216-801-11	METAL CHIP	22	5%	1/10W
R1948	1-216-809-11	METAL CHIP	100	5%	1/10W
		< NETWORK RESISTOR >			
RB1500	1-233-576-11	RES, CHIP NETWORK 100X4 (3216)			
RB1501	1-233-576-11	RES, CHIP NETWORK 100X4 (3216)			
RB1502	1-233-576-11	RES, CHIP NETWORK 100X4 (3216)			
RB1503	1-233-576-11	RES, CHIP NETWORK 100X4 (3216)			
RB1504	1-233-576-11	RES, CHIP NETWORK 100X4 (3216)			
RB1506	1-233-576-11	RES, CHIP NETWORK 100X4 (3216)			
RB1507	1-233-576-11	RES, CHIP NETWORK 100X4 (3216)			
RB1508	1-233-576-11	RES, CHIP NETWORK 100X4 (3216)			
		< VIBRATOR >			
X1101	1-813-448-21	PIEZOELECTRIC OSCILLATOR (24MHz)			
X1301	1-795-126-21	VIBRATOR, CRYSTAL (12.288MHz)			
X1502	1-813-276-21	QUARTZ, CRYSTAL (13.9MHz)			
**********					
	A-1221-600-A	DISPLAY BOARD, COMPLETE (US,CND)			
	A-1221-612-A	DISPLAY BOARD, COMPLETE (AEP,UK)			
		**********			
		< CAPACITOR >			
C100	1-127-888-11	CERAMIC	0.1uF	10%	50V
C101	1-127-888-11	CERAMIC	0.1uF	10%	50V
C106	1-127-868-11	CERAMIC	0.0022uF	10%	50V
C107	1-127-868-11	CERAMIC	0.0022uF	10%	50V
C110	1-162-286-31	CERAMIC	220PF	10%	50V
C111	1-162-286-31	CERAMIC	220PF	10%	50V
C112	1-162-286-31	CERAMIC	220PF	10%	50V
C144	1-127-888-11	CERAMIC	0.1uF	10%	50V

Ref. No.	Part No.	Description			Remark
C145	1-127-888-11	CERAMIC	0.1uF	10%	50V
C146	1-126-964-11	ELECT	10uF	20%	50V
C147	1-162-286-31	CERAMIC	220PF	10%	50V
C148	1-162-286-31	CERAMIC	220PF	10%	50V
C149	1-162-286-31	CERAMIC	220PF	10%	50V
C150	1-127-888-11	CERAMIC	0.1uF	10%	50V
C151	1-127-888-11	CERAMIC	0.1uF	10%	50V
C161	1-126-964-11	ELECT	10uF	20%	50V
		< CONNECTOR >			
CNS102	1-784-778-11	CONNECTOR, FFC 17P			
		< VACUUM FLUORESCENT DISPLAY >			
FL101	1-519-927-11	VACUUM FLUORESCENT DISPLAY			
		< IC >			
IC100	8-759-643-83	IC uPD16315GB-3BS			
IC101	8-759-243-51	IC TC74ACT08P			
IC102	6-600-174-01	IC RPM7240-H4 (IR)			
		< RESISTOR >			
R101	1-249-409-11	CARBON	220	5%	1/4W
R102	1-249-411-11	CARBON	330	5%	1/4W
R103	1-249-413-11	CARBON	470	5%	1/4W
R104	1-249-415-11	CARBON	680	5%	1/4W
R105	1-247-831-11	CARBON	1K	5%	1/4W
R106	1-249-419-11	CARBON	1.5K	5%	1/4W
R107	1-249-421-11	CARBON	2.2K	5%	1/4W
R108	1-249-409-11	CARBON	220	5%	1/4W
R109	1-249-411-11	CARBON	330	5%	1/4W
R110	1-249-413-11	CARBON	470	5%	1/4W
R115	1-247-807-31	CARBON	100	5%	1/4W
R116	1-247-807-31	CARBON	100	5%	1/4W
R117	1-247-807-31	CARBON	100	5%	1/4W
R118	1-249-440-11	CARBON	82K	5%	1/4W
R119	1-247-807-31	CARBON	100	5%	1/4W
R121	1-249-393-11	CARBON	10	5%	1/4W F
R198	1-249-385-11	CARBON	2.2	5%	1/4W F (AEP,UK)
R198	1-249-387-11	CARBON	3.3	5%	1/4W F (US,CND)
R199	1-249-385-11	CARBON	2.2	5%	1/4W F (AEP,UK)
R199	1-249-387-11	CARBON	3.3	5%	1/4W F (US,CND)
		< ROTARY ENCODER >			
RV101	1-418-817-11	ENCODER, ROTARY (INPUT SELECTOR)			
RV102	1-418-725-41	ENCODER, ROTARY (12 TYPE) (MASTER VOLUME)			
		< SWITCH >			
S101	1-771-410-21	SWITCH, TACTILE (DIRECT)			
S102	1-771-410-21	SWITCH, TACTILE (AUTO CAL)			
S103	1-771-410-21	SWITCH, TACTILE (INPUT MODE)			
S104	1-771-410-21	SWITCH, TACTILE (DISPLAY)			
S105	1-771-410-21	SWITCH, TACTILE (MOVIE)			
S106	1-771-410-21	SWITCH, TACTILE (A.F.D.)			

DISPLAY **HDMI SW** **HEADPHONE**

Ref. No.	Part No.	Description			Remark
S107	1-771-410-21	SWITCH, TACTILE (2CH)			
S108	1-771-410-21	SWITCH, TACTILE (MEMORY/ENTER)			
S109	1-771-410-21	SWITCH, TACTILE (TUNING MODE)			
S110	1-771-410-21	SWITCH, TACTILE (TUNING –)			
S111	1-771-410-21	SWITCH, TACTILE (TUNING +)			
S124	1-771-410-21	SWITCH, TACTILE (MUSIC)			
**********					
	A-1158-394-A	HDMI SW BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C5001	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C5002	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5003	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5004	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5005	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5006	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5007	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5008	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5009	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5010	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5011	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5012	1-112-788-11	ELECT CHIP	330uF	20%	6.3V
C5013	1-128-934-11	CERAMIC CHIP	0.33uF	20%	10V
C5014	1-112-788-11	ELECT CHIP	330uF	20%	6.3V
C5015	1-128-994-21	ELECT CHIP	47uF	20%	10V
C5016	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5017	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C5018	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V
C5019	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C5020	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C5021	1-117-681-11	ELECT CHIP	100uF	20%	16V
C5022	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5023	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C5024	1-128-934-11	CERAMIC CHIP	0.33uF	20%	10V
C5027	1-128-994-21	ELECT CHIP	47uF	20%	10V
		< CONNECTOR >			
CN5001	1-820-735-11	CONNECTOR, HDMI 19P (HDMI DVD IN)			
CN5002	1-820-735-11	CONNECTOR, HDMI 19P (HDMI VIDEO 2/BD IN)			
CN5003	1-820-735-11	CONNECTOR, HDMI 19P (HDMI OUT)			
* CN5004	1-770-470-21	PIN, CONNECTOR (PC BOARD) 6P			
		< IC >			
IC5001	6-709-221-01	IC TMDS341PFCR			
IC5002	6-705-337-01	IC TK11150CSCL-G			
IC5003	6-705-468-01	IC BA33BC0FP-E2			
IC5004	6-704-099-01	IC TC7WZ08FK(TE85R)			
IC5005	6-707-207-01	IC SN74LVC1G3157DCKR			
IC5006	6-706-740-01	IC BA00BC0WFP-E2			
		< FERRITE BEAD >			
L5013	1-400-862-11	BEAD, FERRITE			
		< RESISTOR >			
R5001	1-218-861-11	METAL CHIP	3.9K	0.5%	1/10W
R5002	1-218-844-11	METAL CHIP	750	0.5%	1/10W

Ref. No.	Part No.	Description			Remark
R5003	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5004	1-216-864-11	SHORT CHIP	0		
R5005	1-216-864-11	SHORT CHIP	0		
R5006	1-216-864-11	SHORT CHIP	0		
R5007	1-216-864-11	SHORT CHIP	0		
R5008	1-216-864-11	SHORT CHIP	0		
R5009	1-216-864-11	SHORT CHIP	0		
R5010	1-216-864-11	SHORT CHIP	0		
R5011	1-216-864-11	SHORT CHIP	0		
R5014	1-216-864-11	SHORT CHIP	0		
R5015	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5016	1-216-864-11	SHORT CHIP	0		
R5017	1-216-864-11	SHORT CHIP	0		
R5018	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5019	1-216-864-11	SHORT CHIP	0		
R5020	1-216-864-11	SHORT CHIP	0		
R5022	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5024	1-216-864-11	SHORT CHIP	0		
R5025	1-216-864-11	SHORT CHIP	0		
R5026	1-216-809-11	METAL CHIP	100	5%	1/10W
R5027	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5028	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5029	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5030	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5042	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5043	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R5047	1-216-864-11	SHORT CHIP	0		
R5048	1-216-864-11	SHORT CHIP	0		
R5049	1-216-864-11	SHORT CHIP	0		
R5050	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5051	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R5052	1-216-841-11	METAL CHIP	47K	5%	1/10W
R5053	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R5054	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5055	1-216-833-11	METAL CHIP	10K	5%	1/10W
R5056	1-216-821-11	METAL CHIP	1K	5%	1/10W
R5060	1-216-864-11	SHORT CHIP	0		
R5061	1-216-864-11	SHORT CHIP	0		
R5068	1-216-845-11	METAL CHIP	100K	5%	1/10W
R5069	1-216-845-11	METAL CHIP	100K	5%	1/10W
R5072	1-216-809-11	METAL CHIP	100	5%	1/10W
R5073	1-216-864-11	SHORT CHIP	0		
R5074	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
**********					
		HEADPHONE BOARD			
		**********			
		< CONNECTOR >			
* CNP790	1-564-507-11	PLUG, CONNECTOR 4P			
		< JACK >			
J790	1-815-314-21	JACK (PHONES)			
**********					

Ref. No.	Part No.	Description			Remark
	A-1221-595-A	MAIN BOARD, COMPLETE (US,CND)			
	A-1221-608-A	MAIN BOARD, COMPLETE (AEP,UK)			
		**********			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3			
		< CAPACITOR >			
C400	1-127-888-11	CERAMIC	0.1uF	10%	50V
C402	1-126-964-11	ELECT	10uF	20%	50V
C403	1-162-294-31	CERAMIC	0.001uF	10%	50V
C404	1-162-294-31	CERAMIC	0.001uF	10%	50V
C405	1-126-963-11	ELECT	4.7uF	20%	50V
C421	1-126-963-11	ELECT	4.7uF	20%	50V
C422	1-126-963-11	ELECT	4.7uF	20%	50V
C423	1-126-963-11	ELECT	4.7uF	20%	50V
C424	1-126-963-11	ELECT	4.7uF	20%	50V
C425	1-126-963-11	ELECT	4.7uF	20%	50V
C426	1-126-963-11	ELECT	4.7uF	20%	50V
C431	1-126-964-11	ELECT	10uF	20%	50V
C432	1-126-964-11	ELECT	10uF	20%	50V
C433	1-126-964-11	ELECT	10uF	20%	50V
C434	1-126-964-11	ELECT	10uF	20%	50V
C435	1-126-964-11	ELECT	10uF	20%	50V
C436	1-126-964-11	ELECT	10uF	20%	50V
C446	1-126-963-11	ELECT	4.7uF	20%	50V
C452	1-126-964-11	ELECT	10uF	20%	50V
C455	1-126-963-11	ELECT	4.7uF	20%	50V
C471	1-104-658-11	ELECT	100uF	20%	10V
C472	1-127-888-11	CERAMIC	0.1uF	10%	50V
C482	1-127-888-11	CERAMIC	0.1uF	10%	50V
C484	1-127-888-11	CERAMIC	0.1uF	10%	50V
C500	1-128-579-11	ELECT	2.2uF	20%	100V
C501	1-126-963-11	ELECT	4.7uF	20%	50V
C502	1-128-809-11	CERAMIC	100PF	5%	50V
C503	1-128-809-11	CERAMIC	100PF	5%	50V
C504	1-101-810-00	CERAMIC	100PF	5%	500V
C506	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C507	1-104-658-11	ELECT	100uF	20%	10V
C508	1-126-947-11	ELECT	47uF	20%	35V
C511	1-162-815-11	CERAMIC	47PF	5%	500V
C512	1-162-815-11	CERAMIC	47PF	5%	500V
C513	1-128-813-11	CERAMIC	220PF	5%	50V
C514	1-127-876-11	CERAMIC	0.01uF	10%	50V
C515	1-126-964-11	ELECT	10uF	20%	50V
C516	1-136-157-00	FILM	0.022uF	5%	50V
C551	1-126-963-11	ELECT	4.7uF	20%	50V
C552	1-128-809-11	CERAMIC	100PF	5%	50V
C553	1-128-809-11	CERAMIC	100PF	5%	50V
C554	1-101-810-00	CERAMIC	100PF	5%	500V
C556	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C557	1-104-658-11	ELECT	100uF	20%	10V
C558	1-126-947-11	ELECT	47uF	20%	35V
C561	1-162-815-11	CERAMIC	47PF	5%	500V
C562	1-162-815-11	CERAMIC	47PF	5%	500V
C563	1-128-813-11	CERAMIC	220PF	5%	50V
C564	1-127-876-11	CERAMIC	0.01uF	10%	50V
C565	1-126-964-11	ELECT	10uF	20%	50V
C566	1-136-157-00	FILM	0.022uF	5%	50V
C600	1-128-579-11	ELECT	2.2uF	20%	100V
C601	1-126-963-11	ELECT	4.7uF	20%	50V
C602	1-128-809-11	CERAMIC	100PF	5%	50V
C603	1-128-809-11	CERAMIC	100PF	5%	50V
C604	1-101-810-00	CERAMIC	100PF	5%	500V
C606	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C607	1-104-658-11	ELECT	100uF	20%	10V
C608	1-126-947-11	ELECT	47uF	20%	35V
C611	1-162-815-11	CERAMIC	47PF	5%	500V
C612	1-162-815-11	CERAMIC	47PF	5%	500V
C613	1-128-813-11	CERAMIC	220PF	5%	50V
C614	1-127-876-11	CERAMIC	0.01uF	10%	50V
C615	1-126-964-11	ELECT	10uF	20%	50V
C616	1-136-157-00	FILM	0.022uF	5%	50V
C651	1-126-963-11	ELECT	4.7uF	20%	50V
C652	1-128-809-11	CERAMIC	100PF	5%	50V
C653	1-128-809-11	CERAMIC	100PF	5%	50V
C654	1-101-810-00	CERAMIC	100PF	5%	500V
C656	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C657	1-104-658-11	ELECT	100uF	20%	10V
C658	1-126-947-11	ELECT	47uF	20%	35V
C661	1-162-815-11	CERAMIC	47PF	5%	500V
C662	1-162-815-11	CERAMIC	47PF	5%	500V
C663	1-128-813-11	CERAMIC	220PF	5%	50V
C664	1-127-876-11	CERAMIC	0.01uF	10%	50V
C665	1-126-964-11	ELECT	10uF	20%	50V
C666	1-136-157-00	FILM	0.022uF	5%	50V
C700	1-128-579-11	ELECT	2.2uF	20%	100V
C701	1-126-963-11	ELECT	4.7uF	20%	50V
C702	1-128-809-11	CERAMIC	100PF	5%	50V
C703	1-128-809-11	CERAMIC	100PF	5%	50V
C704	1-101-810-00	CERAMIC	100PF	5%	500V
C706	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C707	1-104-658-11	ELECT	100uF	20%	10V
C708	1-126-947-11	ELECT	47uF	20%	35V
C711	1-162-815-11	CERAMIC	47PF	5%	500V
C712	1-162-815-11	CERAMIC	47PF	5%	500V
C713	1-128-813-11	CERAMIC	220PF	5%	50V
C714	1-127-876-11	CERAMIC	0.01uF	10%	50V
C715	1-126-964-11	ELECT	10uF	20%	50V
C716	1-136-157-00	FILM	0.022uF	5%	50V
C801	1-135-798-11	CERAMIC	0.22uF		50V
C802	1-135-798-11	CERAMIC	0.22uF		50V
C803	1-126-936-11	ELECT	3300uF	20%	16V
C806	1-126-947-11	ELECT	47uF	20%	35V
C807	1-126-947-11	ELECT	47uF	20%	35V
C808	1-126-947-11	ELECT	47uF	20%	35V
C811	1-135-851-21	MYLAR	0.22uF		100V
C812	1-135-851-21	MYLAR	0.22uF		100V
C813	1-165-960-11	ELECT(BLOCK)	6800uF	20%	71V
C814	1-165-960-11	ELECT(BLOCK)	6800uF	20%	71V
C815	1-128-582-11	ELECT	10uF	20%	100V
C816	1-128-582-11	ELECT	10uF	20%	100V
C821	1-137-194-81	FILM	0.47uF	5%	50V
C822	1-137-194-81	FILM	0.47uF	5%	50V
C823	1-126-947-11	ELECT	47uF	20%	35V
C824	1-126-947-11	ELECT	47uF	20%	35V
C851	1-127-888-11	CERAMIC	0.1uF	10%	50V

MAIN

Ref. No.	Part No.	Description			Remark
C881	1-126-923-11	ELECT	220uF	20%	10V
C882	1-126-964-11	ELECT	10uF	20%	50V
CC01	1-128-809-11	CERAMIC	100PF	5%	50V (AEP,UK)
CC02	1-128-809-11	CERAMIC	100PF	5%	50V (AEP,UK)
CC03	1-128-809-11	CERAMIC	100PF	5%	50V (AEP,UK)
CC04	1-128-809-11	CERAMIC	100PF	5%	50V (AEP,UK)
CC05	1-128-809-11	CERAMIC	100PF	5%	50V (AEP,UK)
CC11	1-127-876-11	CERAMIC	0.01uF	10%	50V (AEP,UK)
CC12	1-127-876-11	CERAMIC	0.01uF	10%	50V (AEP,UK)
CC13	1-127-876-11	CERAMIC	0.01uF	10%	50V (AEP,UK)
CC14	1-127-876-11	CERAMIC	0.01uF	10%	50V (AEP,UK)
CC15	1-127-876-11	CERAMIC	0.01uF	10%	50V (AEP,UK)
CC51	1-128-809-11	CERAMIC	100PF	5%	50V (AEP,UK)
CC52	1-128-809-11	CERAMIC	100PF	5%	50V (AEP,UK)
CC53	1-128-809-11	CERAMIC	100PF	5%	50V (AEP,UK)
CC54	1-128-809-11	CERAMIC	100PF	5%	50V (AEP,UK)
CC55	1-128-809-11	CERAMIC	100PF	5%	50V (AEP,UK)
		< CONNECTOR >			
CNP501	1-573-847-11	CONNECTOR, BOARD TO BOARD 15P			
CNP502	1-573-843-11	CONNECTOR, BOARD TO BOARD 11P			
* CNP503	1-564-510-11	PLUG, CONNECTOR 7P			
* CNP732	1-564-506-11	PLUG, CONNECTOR 3P			
* CNP901	1-564-687-11	PIN, CONNECTOR (3.96mm PITCH) 3P			
CNP902	1-691-767-11	PLUG (MICRO CONNECTOR) 5P			
* CNP908	1-564-506-11	PLUG, CONNECTOR 3P			
* CNP916	1-691-406-11	CONNECTOR, BOARD TO BOARD 7P			
		< DIODE >			
D501	8-719-991-33	DIODE 1SS133T-77			
D502	8-719-991-33	DIODE 1SS133T-77			
D503	8-719-991-33	DIODE 1SS133T-77			
D551	8-719-991-33	DIODE 1SS133T-77			
D552	8-719-991-33	DIODE 1SS133T-77			
D553	8-719-991-33	DIODE 1SS133T-77			
D601	8-719-991-33	DIODE 1SS133T-77			
D602	8-719-991-33	DIODE 1SS133T-77			
D603	8-719-991-33	DIODE 1SS133T-77			
D651	8-719-991-33	DIODE 1SS133T-77			
D652	8-719-991-33	DIODE 1SS133T-77			
D701	8-719-991-33	DIODE 1SS133T-77			
D702	8-719-991-33	DIODE 1SS133T-77			
D703	8-719-991-33	DIODE 1SS133T-77			
D752	8-719-991-33	DIODE 1SS133T-77			
D791	8-719-991-33	DIODE 1SS133T-77			

Ref. No.	Part No.	Description			Remark
D801	8-719-986-50	DIODE HZS22-1LTA			
D802	8-719-068-24	DIODE HZ5.6BP-TK			
D804	6-500-522-11	DIODE 10EDB40-TA2B5			
D805	6-500-522-11	DIODE 10EDB40-TA2B5			
D806	6-500-522-11	DIODE 10EDB40-TA2B5			
D807	6-500-522-11	DIODE 10EDB40-TA2B5			
D811	8-719-072-05	DIODE RBV-602LF-A			
D821	8-719-043-76	DIODE AK04V0			
D851	8-719-991-33	DIODE 1SS133T-77			
D852	8-719-934-21	DIODE HZS30-1L			
D881	8-719-991-33	DIODE 1SS133T-77			
D882	8-719-991-33	DIODE 1SS133T-77			
D883	8-719-991-33	DIODE 1SS133T-77			
		< IC >			
IC400	6-707-169-01	IC M61542FP			
IC501	6-710-828-01	IC STK350-530T-E			
IC601	6-710-828-01	IC STK350-530T-E			
IC701	6-710-828-01	IC STK350-530T-E			
IC821	8-759-071-48	IC TA7807S			
IC822	8-759-071-47	IC TA79007S			
IC850	8-759-167-88	IC NJM4565D			
		< JACK >			
J400	1-774-411-11	JACK, PIN 6P (SA-CD/CD AUDIO IN, TV AUDIO IN,SAT AUDIO IN)			
J401	1-794-981-11	JACK, PIN 4P (VIDEO 1 AUDIO OUT/IN)			
J403	1-770-377-21	JACK, PIN 1P (SUB WOOFER AUDIO OUT)			
		< RESISTOR >			
JW753	1-247-873-11	CARBON	56K	5%	1/4W
		< COIL >			
L501	1-420-872-52	COIL, AIR-CORE			
L551	1-420-872-52	COIL, AIR-CORE			
L601	1-420-872-52	COIL, AIR-CORE			
L651	1-420-872-52	COIL, AIR-CORE			
L701	1-420-872-52	COIL, AIR-CORE			
		< TRANSISTOR >			
Q471	8-729-922-37	TRANSISTOR 2SD2144S-UVW			
Q501	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q502	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q505	8-729-042-09	TRANSISTOR 2SA1038S-RSE-TP			
Q506	8-729-042-09	TRANSISTOR 2SA1038S-RSE-TP			
Q507	8-729-281-53	TRANSISTOR 2SC1815-GR			
Q508	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q509	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q551	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q552	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q555	8-729-042-09	TRANSISTOR 2SA1038S-RSE-TP			
Q556	8-729-042-09	TRANSISTOR 2SA1038S-RSE-TP			
Q557	8-729-281-53	TRANSISTOR 2SC1815-GR			
Q560	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q601	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q602	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q605	8-729-042-09	TRANSISTOR 2SA1038S-RSE-TP			
Q606	8-729-042-09	TRANSISTOR 2SA1038S-RSE-TP			

Ref. No.	Part No.	Description				Remark
Q607	8-729-281-53	TRANSISTOR	2SC1815-GR			
Q608	8-729-119-78	TRANSISTOR	2SC2785-HFE			
Q651	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q652	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q655	8-729-042-09	TRANSISTOR	2SA1038S-RSE-TP			
Q656	8-729-042-09	TRANSISTOR	2SA1038S-RSE-TP			
Q657	8-729-281-53	TRANSISTOR	2SC1815-GR			
Q701	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q702	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q705	8-729-042-09	TRANSISTOR	2SA1038S-RSE-TP			
Q706	8-729-042-09	TRANSISTOR	2SA1038S-RSE-TP			
Q707	8-729-281-53	TRANSISTOR	2SC1815-GR			
Q708	8-729-119-78	TRANSISTOR	2SC2785-HFE			
Q801	8-729-140-97	TRANSISTOR	2SB734-34			
Q851	8-729-281-53	TRANSISTOR	2SC1815-GR			
Q852	8-729-029-40	TRANSISTOR	DTA124ESA			
Q881	8-729-042-09	TRANSISTOR	2SA1038S-RSE-TP			
Q882	8-729-119-78	TRANSISTOR	2SC2785-HFE			
Q883	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA			
		< RESISTOR >				
R401	1-247-831-11	CARBON	1K	5%	1/4W	
R402	1-247-831-11	CARBON	1K	5%	1/4W	
R403	1-247-831-11	CARBON	1K	5%	1/4W	
R404	1-247-831-11	CARBON	1K	5%	1/4W	
R405	1-247-831-11	CARBON	1K	5%	1/4W	
R406	1-247-807-31	CARBON	100	5%	1/4W	
R407	1-247-807-31	CARBON	100	5%	1/4W	
R416	1-247-831-11	CARBON	1K	5%	1/4W	
R451	1-247-831-11	CARBON	1K	5%	1/4W	
R452	1-247-831-11	CARBON	1K	5%	1/4W	
R453	1-247-831-11	CARBON	1K	5%	1/4W	
R454	1-247-831-11	CARBON	1K	5%	1/4W	
R455	1-247-831-11	CARBON	1K	5%	1/4W	
R469	1-247-831-11	CARBON	1K	5%	1/4W	
R471	1-249-415-11	CARBON	680	5%	1/4W	
R472	1-247-831-11	CARBON	1K	5%	1/4W	
R473	1-249-421-11	CARBON	2.2K	5%	1/4W	
R479	1-249-421-11	CARBON	2.2K	5%	1/4W	
R500	1-247-871-11	CARBON	47K	5%	1/4W	
R501	1-247-831-11	CARBON	1K	5%	1/4W	
R502	1-249-439-11	CARBON	68K	5%	1/4W	
R503	1-249-421-11	CARBON	2.2K	5%	1/4W	
R504	1-249-439-11	CARBON	68K	5%	1/4W	
R505	1-249-421-11	CARBON	2.2K	5%	1/4W	
R506	1-249-440-11	CARBON	82K	5%	1/4W	
R507	1-249-414-11	CARBON	560	5%	1/4W	
R508	1-249-405-11	CARBON	100	5%	1/4W	F
R509	1-249-405-11	CARBON	100	5%	1/4W	F
R510	1-234-182-11	ENCAPSULATED COMPONENT 0.22X2 5W				
R511	1-247-847-11	CARBON	4.7K	5%	1/4W	
R512	1-240-855-81	CARBON	6.2K	5%	1/4W	F
R513	1-249-419-11	CARBON	1.5K	5%	1/4W	
R514	1-249-431-11	CARBON	15K	5%	1/4W	
R515	1-247-863-11	CARBON	22K	5%	1/4W	
R516	1-247-843-11	CARBON	3.3K	5%	1/4W	
R517	1-249-431-11	CARBON	15K	5%	1/4W	
R518	1-247-863-11	CARBON	22K	5%	1/4W	

Ref. No.	Part No.	Description				Remark
R519	1-247-863-11	CARBON	22K	5%	1/4W	
R520	1-249-439-11	CARBON	68K	5%	1/4W	
R521	1-249-393-11	CARBON	10	5%	1/4W	F
R522	1-247-871-11	CARBON	47K	5%	1/4W	
R523	1-249-389-11	CARBON	4.7	5%	1/4W	F
R524	1-249-404-00	CARBON	82	5%	1/4W	F
R525	1-249-421-11	CARBON	2.2K	5%	1/4W	
⚠R531	1-215-868-00	METAL OXIDE	680	5%	1W	F
⚠R532	1-215-868-00	METAL OXIDE	680	5%	1W	F
R551	1-247-831-11	CARBON	1K	5%	1/4W	
R552	1-249-439-11	CARBON	68K	5%	1/4W	
R553	1-249-421-11	CARBON	2.2K	5%	1/4W	
R554	1-249-439-11	CARBON	68K	5%	1/4W	
R555	1-249-421-11	CARBON	2.2K	5%	1/4W	
R556	1-249-440-11	CARBON	82K	5%	1/4W	
R557	1-249-414-11	CARBON	560	5%	1/4W	
R558	1-249-405-11	CARBON	100	5%	1/4W	F
R559	1-249-405-11	CARBON	100	5%	1/4W	F
R560	1-234-182-11	ENCAPSULATED COMPONENT 0.22X2 5W				
R561	1-247-847-11	CARBON	4.7K	5%	1/4W	
R562	1-240-855-81	CARBON	6.2K	5%	1/4W	F
R563	1-249-419-11	CARBON	1.5K	5%	1/4W	
R564	1-249-431-11	CARBON	15K	5%	1/4W	
R565	1-247-863-11	CARBON	22K	5%	1/4W	
R566	1-247-843-11	CARBON	3.3K	5%	1/4W	
R567	1-249-431-11	CARBON	15K	5%	1/4W	
R568	1-247-863-11	CARBON	22K	5%	1/4W	
R569	1-247-863-11	CARBON	22K	5%	1/4W	
R570	1-249-439-11	CARBON	68K	5%	1/4W	
R571	1-249-393-11	CARBON	10	5%	1/4W	F
R572	1-247-871-11	CARBON	47K	5%	1/4W	
R573	1-249-389-11	CARBON	4.7	5%	1/4W	F
R574	1-249-404-00	CARBON	82	5%	1/4W	F
R600	1-247-871-11	CARBON	47K	5%	1/4W	
R601	1-247-831-11	CARBON	1K	5%	1/4W	
R602	1-249-439-11	CARBON	68K	5%	1/4W	
R603	1-249-421-11	CARBON	2.2K	5%	1/4W	
R604	1-249-439-11	CARBON	68K	5%	1/4W	
R605	1-249-421-11	CARBON	2.2K	5%	1/4W	
R606	1-249-440-11	CARBON	82K	5%	1/4W	
R607	1-249-414-11	CARBON	560	5%	1/4W	
R608	1-249-405-11	CARBON	100	5%	1/4W	F
R609	1-249-405-11	CARBON	100	5%	1/4W	F
R610	1-234-182-11	ENCAPSULATED COMPONENT 0.22X2 5W				
R611	1-247-847-11	CARBON	4.7K	5%	1/4W	
R612	1-240-855-81	CARBON	6.2K	5%	1/4W	F
R613	1-249-419-11	CARBON	1.5K	5%	1/4W	
R614	1-249-431-11	CARBON	15K	5%	1/4W	
R615	1-247-863-11	CARBON	22K	5%	1/4W	
R616	1-247-843-11	CARBON	3.3K	5%	1/4W	
R617	1-249-431-11	CARBON	15K	5%	1/4W	
R618	1-247-863-11	CARBON	22K	5%	1/4W	
R619	1-247-863-11	CARBON	22K	5%	1/4W	
R620	1-249-439-11	CARBON	68K	5%	1/4W	
R621	1-249-393-11	CARBON	10	5%	1/4W	F
R622	1-247-871-11	CARBON	47K	5%	1/4W	
R623	1-249-389-11	CARBON	4.7	5%	1/4W	F
R624	1-249-404-00	CARBON	82	5%	1/4W	F

MAIN **POWER**

Ref. No.	Part No.	Description			Remark
R625	1-249-421-11	CARBON	2.2K	5%	1/4W
R651	1-247-831-11	CARBON	1K	5%	1/4W
R652	1-249-439-11	CARBON	68K	5%	1/4W
R653	1-249-421-11	CARBON	2.2K	5%	1/4W
R654	1-249-439-11	CARBON	68K	5%	1/4W
R655	1-249-421-11	CARBON	2.2K	5%	1/4W
R656	1-249-440-11	CARBON	82K	5%	1/4W
R657	1-249-414-11	CARBON	560	5%	1/4W
R658	1-249-405-11	CARBON	100	5%	1/4W F
R659	1-249-405-11	CARBON	100	5%	1/4W F
R660	1-234-182-11	ENCAPSULATED COMPONENT 0.22X2 5W			
R661	1-247-847-11	CARBON	4.7K	5%	1/4W
R662	1-240-855-81	CARBON	6.2K	5%	1/4W F
R663	1-249-419-11	CARBON	1.5K	5%	1/4W
R664	1-249-431-11	CARBON	15K	5%	1/4W
R665	1-247-863-11	CARBON	22K	5%	1/4W
R666	1-247-843-11	CARBON	3.3K	5%	1/4W
R667	1-249-431-11	CARBON	15K	5%	1/4W
R668	1-247-863-11	CARBON	22K	5%	1/4W
R669	1-247-863-11	CARBON	22K	5%	1/4W
R670	1-249-439-11	CARBON	68K	5%	1/4W
R671	1-249-393-11	CARBON	10	5%	1/4W F
R672	1-247-871-11	CARBON	47K	5%	1/4W
R673	1-249-389-11	CARBON	4.7	5%	1/4W F
R700	1-247-871-11	CARBON	47K	5%	1/4W
R701	1-247-831-11	CARBON	1K	5%	1/4W
R702	1-249-439-11	CARBON	68K	5%	1/4W
R703	1-249-421-11	CARBON	2.2K	5%	1/4W
R704	1-249-439-11	CARBON	68K	5%	1/4W
R705	1-249-421-11	CARBON	2.2K	5%	1/4W
R706	1-249-440-11	CARBON	82K	5%	1/4W
R707	1-249-414-11	CARBON	560	5%	1/4W
R708	1-249-405-11	CARBON	100	5%	1/4W F
R709	1-249-405-11	CARBON	100	5%	1/4W F
R710	1-234-182-11	ENCAPSULATED COMPONENT 0.22X2 5W			
R711	1-247-847-11	CARBON	4.7K	5%	1/4W
R712	1-240-855-81	CARBON	6.2K	5%	1/4W F
R713	1-249-419-11	CARBON	1.5K	5%	1/4W
R714	1-249-431-11	CARBON	15K	5%	1/4W
R715	1-247-863-11	CARBON	22K	5%	1/4W
R716	1-247-843-11	CARBON	3.3K	5%	1/4W
R717	1-249-431-11	CARBON	15K	5%	1/4W
R718	1-247-863-11	CARBON	22K	5%	1/4W
R719	1-247-863-11	CARBON	22K	5%	1/4W
R720	1-249-439-11	CARBON	68K	5%	1/4W
R721	1-249-393-11	CARBON	10	5%	1/4W F
R722	1-247-871-11	CARBON	47K	5%	1/4W
R723	1-249-389-11	CARBON	4.7	5%	1/4W F
R724	1-249-404-00	CARBON	82	5%	1/4W F
R725	1-247-807-31	CARBON	100	5%	1/4W
R752	1-247-873-11	CARBON	56K	5%	1/4W
R773	1-249-389-11	CARBON	4.7	5%	1/4W F
R780	1-247-847-11	CARBON	4.7K	5%	1/4W
R782	1-247-879-11	CARBON	100K	5%	1/4W
R783	1-247-879-11	CARBON	100K	5%	1/4W
R791	1-249-421-11	CARBON	2.2K	5%	1/4W
R793	1-249-404-00	CARBON	82	5%	1/4W F
R802	1-249-409-11	CARBON	220	5%	1/4W F
R803	1-249-389-11	CARBON	4.7	5%	1/4W F
R804	1-249-429-11	CARBON	10K	5%	1/4W
R806	1-247-863-11	CARBON	22K	5%	1/4W
R815	1-249-381-11	CARBON	1	5%	1/4W F
R816	1-249-381-11	CARBON	1	5%	1/4W F
R851	1-249-429-11	CARBON	10K	5%	1/4W
R852	1-249-429-11	CARBON	10K	5%	1/4W
R853	1-249-429-11	CARBON	10K	5%	1/4W
R854	1-249-435-11	CARBON	33K	5%	1/4W
R855	1-247-887-00	CARBON	220K	5%	1/4W
R856	1-247-895-00	CARBON	470K	5%	1/4W
R857	1-249-429-11	CARBON	10K	5%	1/4W
⚠R858	1-215-888-00	METAL OXIDE	220	5%	2W F (US,CND)
⚠R858	1-215-890-11	METAL OXIDE	470	5%	2W F (AEP,UK)
⚠R859	1-215-888-00	METAL OXIDE	220	5%	2W F (US,CND)
⚠R859	1-216-453-00	METAL OXIDE	270	5%	2W F (AEP,UK)
R881	1-247-879-11	CARBON	100K	5%	1/4W
R882	1-249-429-11	CARBON	10K	5%	1/4W
R883	1-249-427-11	CARBON	6.8K	5%	1/4W
R884	1-249-436-11	CARBON	39K	5%	1/4W
R885	1-247-831-11	CARBON	1K	5%	1/4W
⚠R910	1-243-635-11	FUSIBLE	0.33	5%	1/2W F
RR11	1-249-393-11	CARBON	10	5%	1/4W F (AEP,UK)
RR12	1-249-393-11	CARBON	10	5%	1/4W F (AEP,UK)
RR13	1-249-393-11	CARBON	10	5%	1/4W F (AEP,UK)
RR14	1-249-393-11	CARBON	10	5%	1/4W F (AEP,UK)
RR15	1-249-393-11	CARBON	10	5%	1/4W F (AEP,UK)

< RELAY >

RY501	1-755-416-12	RELAY
RY502	1-755-416-12	RELAY
RY551	1-755-416-12	RELAY
RY601	1-755-416-12	RELAY
RY701	1-755-416-12	RELAY
RY702	1-755-267-11	RELAY

< TERMINAL BOARD >

TM601	1-694-785-11	TERMINAL BOARD (4P) (SPEAKERS FRONT B)
TM603	1-780-449-11	BANANA-PUSH TERMINAL BOARD (8P) (SPEAKERS SURROUND,FRONT A) (AEP,UK)
TM603	1-780-498-11	BANANA-PUSH TERMINAL BOARD (8P) (SPEAKERS SURROUND,FRONT A) (US,CND)

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POWER BOARD

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< CONNECTOR >

*	CNP152	1-564-506-11	PLUG, CONNECTOR 3P

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R130	1-249-415-11	CARBON	680	5%	1/4W
		< SWITCH >			
S120	1-771-410-21	SWITCH, TACTILE (SPEAKERS (OFF/A/B))			
S153	1-771-410-21	SWITCH, TACTILE (I/⏻)			
**********					
		STANDBY BOARD			
		**********			
	1-533-217-41	HOLDER, FUSE			
		< CAPACITOR >			
C900	1-127-888-11	CERAMIC	0.1uF	10%	50V
C901	1-135-798-11	CERAMIC	0.22uF		50V
C902	1-135-798-11	CERAMIC	0.22uF		50V
C911	1-135-798-11	CERAMIC	0.22uF		50V
C912	1-135-798-11	CERAMIC	0.22uF		50V
C913	1-126-959-11	ELECT	0.47uF	20%	50V
C914	1-126-936-11	ELECT	3300uF	20%	16V
C915	1-126-943-11	ELECT	2200uF	20%	25V
C916	1-126-942-61	ELECT	1000uF	20%	25V
		< CONNECTOR >			
* CNP801	1-564-510-11	PLUG, CONNECTOR 7P			
CNP900	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P			
* CNP903	1-564-506-11	PLUG, CONNECTOR 3P			
* CNP904	1-565-792-11	PIN, CONNECTOR (3.96mm PITCH) 2P			
* CNP906	1-691-408-11	CONNECTOR, BOARD TO BOARD 7P			
		< DIODE >			
D901	8-719-991-33	DIODE 1SS133T-77			
D910	6-500-522-11	DIODE 10EDB40-TA2B5			
D911	6-500-522-11	DIODE 10EDB40-TA2B5			
D912	6-500-522-11	DIODE 10EDB40-TA2B5			
D913	6-500-522-11	DIODE 10EDB40-TA2B5			
D914	8-719-991-33	DIODE 1SS133T-77			
D915	8-719-991-33	DIODE 1SS133T-77			
D920	6-500-522-11	DIODE 10EDB40-TA2B5			
D921	6-500-522-11	DIODE 10EDB40-TA2B5			
D922	6-500-522-11	DIODE 10EDB40-TA2B5			
D923	6-500-522-11	DIODE 10EDB40-TA2B5			
		< GROUND TERMINAL >			
G901	1-537-738-21	TERMINAL, GROUND			
		< TRANSISTOR >			
Q901	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q911	8-729-119-78	TRANSISTOR 2SC2785-HFE			
		< RESISTOR >			
⚠R810	1-243-634-91	FUSIBLE	0.22	5%	1/2W F
⚠R812	1-243-634-91	FUSIBLE	0.22	5%	1/2W F
⚠R900	1-219-237-91	SOLID	3.3M	20%	1/2W F (US,CND)
R903	1-247-871-11	CARBON	47K	5%	1/4W
R904	1-247-847-11	CARBON	4.7K	5%	1/4W

Ref. No.	Part No.	Description			Remark
R905	1-249-381-11	CARBON	1	5%	1/4W F
R911	1-247-871-11	CARBON	47K	5%	1/4W
R912	1-249-435-11	CARBON	33K	5%	1/4W
R913	1-249-429-11	CARBON	10K	5%	1/4W
		< RELAY >			
⚠RY901	1-755-439-11	RELAY			
		< TRANSFORMER >			
⚠T902	1-443-517-11	TRANSFORMER, POWER (SUB) (AEP,UK)			
⚠T902	1-443-516-11	TRANSFORMER, POWER (SUB) (US,CND)			
**********					
		VIDEO BOARD			
		**********			
		< CAPACITOR >			
C200	1-128-805-11	CERAMIC	47PF	5%	50V
C201	1-128-805-11	CERAMIC	47PF	5%	50V
C206	1-126-964-11	ELECT	10uF	20%	50V
C207	1-126-964-11	ELECT	10uF	20%	50V
C208	1-126-964-11	ELECT	10uF	20%	50V
C210	1-126-964-11	ELECT	10uF	20%	50V
C213	1-126-934-11	ELECT	220uF	20%	16V
C214	1-164-159-11	CERAMIC	0.1uF		50V
C215	1-164-159-11	CERAMIC	0.1uF		50V
C248	1-128-825-11	CERAMIC	0.0022uF	5%	50V
C250	1-128-825-11	CERAMIC	0.0022uF	5%	50V
C251	1-126-964-11	ELECT	10uF	20%	50V
C252	1-126-964-11	ELECT	10uF	20%	50V
C253	1-126-964-11	ELECT	10uF	20%	50V
C254	1-126-964-11	ELECT	10uF	20%	50V
C255	1-126-964-11	ELECT	10uF	20%	50V
C256	1-126-964-11	ELECT	10uF	20%	50V
C257	1-127-888-11	CERAMIC	0.1uF	10%	50V
C258	1-126-947-11	ELECT	47uF	20%	35V
C259	1-127-888-11	CERAMIC	0.1uF	10%	50V
C260	1-126-947-11	ELECT	47uF	20%	35V
C809	1-126-934-11	ELECT	220uF	20%	16V
C825	1-164-159-11	CERAMIC	0.1uF		50V
C826	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
* CNP156	1-564-506-11	PLUG, CONNECTOR 3P			
CNS251	1-784-774-11	CONNECTOR, FFC 13P			
		< IC >			
IC203	8-759-333-84	IC NJM2279D			
IC251	6-707-363-01	IC NJM2586AL			
IC804	8-759-245-79	IC TA79005S			
IC807	8-759-231-53	IC TA7805S			
		< JACK >			
J201	1-815-043-11	JACK, PIN 2P (VIDEO 1 VIDEO IN, MONITOR VIDEO OUT)			
J202	1-794-978-11	JACK, PIN 3P (SAT VIDEO IN, DVD VIDEO IN,VIDEO 1 VIDEO OUT)			
J251	1-816-592-11	JACK, PIN 9P (COMPONENT VIDEO SAT IN,DVD IN,MONITOR OUT)			

VIDEO

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R200	1-247-804-11	CARBON	75	5%	1/4W
R201	1-247-804-11	CARBON	75	5%	1/4W
R218	1-247-804-11	CARBON	75	5%	1/4W
R220	1-247-804-11	CARBON	75	5%	1/4W
R221	1-247-804-11	CARBON	75	5%	1/4W
R250	1-247-804-11	CARBON	75	5%	1/4W
R251	1-247-804-11	CARBON	75	5%	1/4W
R252	1-247-804-11	CARBON	75	5%	1/4W
R253	1-247-831-11	CARBON	1K	5%	1/4W
R254	1-247-831-11	CARBON	1K	5%	1/4W
R255	1-247-831-11	CARBON	1K	5%	1/4W
R256	1-247-804-11	CARBON	75	5%	1/4W
R257	1-247-804-11	CARBON	75	5%	1/4W
R258	1-247-804-11	CARBON	75	5%	1/4W
R259	1-247-804-11	CARBON	75	5%	1/4W
R260	1-247-804-11	CARBON	75	5%	1/4W
R261	1-247-804-11	CARBON	75	5%	1/4W
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		MISCELLANEOUS			
		**********			
57	1-832-060-11	CABLE, FLEXIBLE FLAT (25 CORE)			
101	1-828-953-11	WIRE (FLAT TYPE) (9 CORE) (US,CND)			
101	1-828-963-11	WIRE (FLAT TYPE) (11 CORE) (AEP,UK)			
102	1-828-971-11	WIRE (FLAT TYPE) (13 CORE)			
⚠105	1-777-071-83	CORD, POWER (AEP,UK)			
⚠105	1-783-820-11	CORD, POWER (US,CND)			
⚠F901	1-532-464-33	FUSE (T2.5AL/250V) (AEP,UK)			
⚠F901	1-533-454-12	FUSE, GLASS TUBE (DIA. 5) (6.3A/125V)			(US,CND)
Q503	6-702-390-01	TRANSISTOR MN2488-OPY-MK			
Q504	6-702-391-01	TRANSISTOR MP1620-OPY-MK			
Q553	6-702-390-01	TRANSISTOR MN2488-OPY-MK			
Q554	6-702-391-01	TRANSISTOR MP1620-OPY-MK			
Q603	6-702-390-01	TRANSISTOR MN2488-OPY-MK			
Q604	6-702-391-01	TRANSISTOR MP1620-OPY-MK			
Q653	6-702-390-01	TRANSISTOR MN2488-OPY-MK			
Q654	6-702-391-01	TRANSISTOR MP1620-OPY-MK			
Q703	6-702-390-01	TRANSISTOR MN2488-OPY-MK			
Q704	6-702-391-01	TRANSISTOR MP1620-OPY-MK			
⚠T901	1-439-550-21	TRANSFORMER, POWER (MAIN) (AEP,UK)			
⚠T901	1-439-583-11	TRANSFORMER, POWER (MAIN) (US,CND)			
TN1	1-693-728-11	TUNER (FM/AM) (ANTENNA) (US,CND)			
TN1	1-693-737-11	TUNER (FM/AM) (ANTENNA) (AEP,UK)			
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Ref. No.	Part No.	Description	Remark
		ACCESSORIES	
		**********	
	1-480-097-11	STANDARD COMMANDER (RM-AAU013) (including BATTERY LID)	
	1-501-374-12	ANTENNA, LOOP (AM)	
	1-501-807-12	ANTENNA (FM) (AEP,UK)	
	1-542-670-11	MEASUREMENT MIC (MONO) (ECM-AC2)	
⚠	1-770-019-61	ADAPTOR, CONVERSION PLUG (UK)	
	1-793-184-23	CONNECTOR (F TYPE ADAPTOR) (FM) (US,CND)	
	2-894-570-61	EASY SETUP GUIDE (GREEK) (AEP)	
	2-894-570-71	EASY SETUP GUIDE (TURKISH) (AEP)	
	2-894-570-81	EASY SETUP GUIDE (HUNGARIAN,CZECH)	(AEP)
	2-894-570-91	EASY SETUP GUIDE (SLOVAKIAN) (AEP)	
	2-898-429-11	MANUAL, INSTRUCTION (ENGLISH)	
	2-898-429-21	MANUAL, INSTRUCTION (FRENCH) (CND,AEP)	
	2-898-429-31	MANUAL, INSTRUCTION (SPANISH) (AEP)	
	2-898-429-41	MANUAL, INSTRUCTION (GERMAN,DUTCH,	SWEDISH) (AEP)
	2-898-429-51	MANUAL, INSTRUCTION (ITALIAN,POLISH)	(AEP)
	2-898-429-61	MANUAL, INSTRUCTION (DANISH,FINNISH)	(AEP)
	2-898-429-71	MANUAL, INSTRUCTION (PORTUGUESE) (AEP)	
	2-898-429-81	MANUAL, INSTRUCTION (RUSSIAN) (AEP)	
	3-097-046-41	MANUAL, INSTRUCTION (GREEK) (AEP)	
	3-097-046-51	MANUAL, INSTRUCTION (TURKISH) (AEP)	
	3-097-046-61	MANUAL, INSTRUCTION (HUNGARIAN,CZECH)	(AEP)
	3-097-046-71	MANUAL, INSTRUCTION (SLOVAKIAN) (AEP)	

MEMO

REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2007. 01	New